LED
CATALOG

LITEON

Creating infinite possibilities for a bright future

Lite-On is the leading global provider of optoelectronic components, with a comprehensive portfolio ranging from Visible LEDs, LED Numeric Displays, and Invisible Infrared Emitting and Detecting Components, Optical Sensors, Photocouplers and UV LEDs.

Offering one of the industry's broadest product portfolios, Lite-ON's optoelectronic based product solutions are used in a wide variety of applications covering various segments of the computer, communications, consumer, and industrial.

With a clear vision to be "Best Partner in Optoelectronic, Eco-Friendly and Intelligent Technologies", we are driven to create extraordinary value and competitive dvantage for our customers through innovative technology, superior flexibility manufacturing capabilities and professional services.

Together, we work to enrich lives and shape the future!

For more information, please visit us online at www.liteon.com/opto

Table of Contents

Table of Contents 01
Alphanumeric Index 03
Products & Solutions 19

Flash LED 31

Flash LED_2016 Package 32
Flash LED_1610 Package 33
Flash LED_Module Type 33
Flash LED_CSP Type 35

SMD LED 37

Chip LED_Top View 40
Chip LED_Top View_Reverse Mount 46
Chip LED _Top View _Dome Lens 47
Chip LED _Top View_Inner Lens 49
Chip LED_Top View_Dual Color 50
Chip LED_Top View_Reverse Mount Dual Color 53
Chip LED_Top View_Multi Color 54
Chip LED_Side View 58
Chip LED_Side View with Reflector 60
Chip LED_Side View_Dual Color 61
Chip LED_Side View_Multi Color 62
PLCC_Top View 65
PLCC_Top View_Dual Color 71
PLCC_Top View_Multi Color 72
PLCC_Side View 76
PLCC_Side View_Dual Color 79
PLCC_Side View_Multi Color 80

Through Hole Lamp 82

3mm 83
3mm_Dual Color 85
4mm 87
5mm 87
5mm_Dual Color 88
5mm_0.5W 88
RGB Lamp 89
Circuit Board Indicator (CBI)_Single Level 89
Circuit Board Indicator (CBI)_Bi-Level 92
Circuit Board Indicator (CBI)_Tri-Level 94
Circuit Board Indicator (CBI)_Quad-Level 94
Circuit Board Indicator (CBI)_Quin-Level 95
Circuit Board Indicator (CBI)_PIP 95
Circuit Board Indicators (CBI) with SMD LED 97

LED Display 99

Numeric Display_Single Digit 101
Numeric Display_Dual Digits 110
Numeric Display_Triple Digits 117
Numeric Display_Quadruple Digits 120
Numeric Display_Quintuple Digits 128
Numeric Display_SMD Type 129
Alphanumeric Display 139
Alphanumeric Display_SMD Type 143
Dot Matrix_5X7 Single Color 144
Dot Matrix_5X8 Single Color 147
Dot Matrix_8X8 Single Color 149
Dot Matrix_8X8 Multi Color 151
Dot Matrix_16X16 Single Color 152
Light Bar Array 154
LED Display Module 157

Automotive LED 160

Interior_Chip LED, PLCC 161
Interior_Side LED 163
Interior_Multi Color 3-in-1 LED 164
Interior/Exterior_PLCC4/6 LED 165
Exterior_Through Hole Lamp 166
Exterior_High Power LED 168
Exterior_High Intensity Chip Array 170

Signage LED 171

Chip LED Single Color 172
Chip LED Multi Color 173
Chip LED Multi Color (IC Embedded) 174
PLCC Single Color 175
PLCC Multi Color 176
Through Hole Lamp_3mm 178
Through Hole Lamp_4mm 179
Through Hole Lamp_5mm 181
Through Hole Lamp_5mm_Dual Color 183

Lighting LED 184

Middle Power 185
High Power 189
Ceramic COB 191
MCPCB COB 195

Infrared Emitter and Detector 197

IR Emitter_3mm Through Hole Type 198
IR Emitter_5mm Through Hole Type 201
IR Emitter_Side Look 202
IR Emitter_SMD Side View 203
IR Emitter_SMD Type 204
IR Emitter_SMD Bowl Type 208
IR Emitter_High Power SMD 209
IR Emitter_SMD Type 209
Photodiode_5mm Through Hole Type 210
Photodiode_Side Look 210
Photodiode_SMD Side Look 212
Photodiode_SMD Type 213
Phototransistors_3mm Through Hole Type 215
Phototransistors_Side Look 217
Phototransistors_SMD Type 219
Photolink_Transmitter 222
Infrared Transceiver 224

Optical Sensors 225

Ambient Light Sensor 226
RGB Color Sensor 227
UV Sensor 228
Proximity Sensor 228
2-in-1 Integrated Sensor 229
3-in-1 Integrated Sensor 230
4-in-1 Integrated Sensor 232
Gesture Integrated Sensor 233
Heart Rate Monitoring Sensor 234
Reflective Sensor 236
Transmissive Sensor_Slotted Type 238
Transmissive Sensor_Actuator Type 245

Photocoupler 246

General Purpose Phototransistor Photocoupler 249
Darlington Transistor Output Photocoupler 252
Triac Output Photocoupler 254
1MBd Transistor Output photocoupler 255
10MBd Logic Gate/ 15MBd CMOS Photocoupler 256
100kBd Darlington Output Photocoupler 257
Integrated Gate Drive Photocoupler 258
Schmitt Trigger 260
Intelligent Power Module Interface Photocoupler 261

UV LED 263

UV LED 264

Worldwide Contacts 266

REPRESENTATIVES AND DISTRIBUTORS
ASIA / PACIFIC 267
EMEA 270
Americas 277

Branch Offices 296

Alphanumeric Index

Alphanumeric Index

4N25 251
4N26 251
4N27 251
4N28 251
4N35 251
4N37 251

6N135-H 255
6N135-L 255
6N136-H 255
6N136-L 255
6N137-L 256
6N138-L 257
6N139-L 257

CNY17-1 251
CNY17-2 251
CNY17-3 251
CNY17-4 251
CNY17F-1 251
CNY17F-2 251
CNY17F-3 251
CNY17F-4 251

H11L1-L 260
H11L2-L 260
H11L3-L 260

HSDL-3201-008 224
HSDL-3201-021 224
HSDL-3208-025 224
HSDL-3208-S25 224

LTA-1000KD 154
LTA-1000KF 154
LTA-1000KG 154
LTA-1000KR 154
LTA-1000KS 154

LTC-26C7KD-02 120

LTC-46D2SW 125
LTC-46F6CKD-P 138
LTC-46F6CKF-P 138
LTC-46F6CKG-P 138
LTC-46F6CKR-P 138
LTC-46F6CKS-P 138
LTC-46F6TB-P 138

LTC-57C7KD 125
LTC-57C7KF 125
LTC-57C7KG 125
LTC-57C7KR 125
LTC-57C7KS 125

LTC-561JD 119
LTC-561JG 119
LTC-561KF 119
LTC-561KR 119
LTC-561KS 119
LTC-561TB 119

LTC-571JD 119
LTC-571JG 119
LTC-571KF 119
LTC-571KR 119
LTC-571KS 119
LTC-571TB 119

LTC-2621JD 117
LTC-2621JG 117
LTC-2621JR 117
LTC-2621KF 117
LTC-2621KS 117

LTC-2621TB 117
LTC-2623JD 121
LTC-2623JF 121
LTC-2623JG 121
LTC-2623JR 121
LTC-2623JS 121
LTC-2623TB 121
LTC-2650JG 122
LTC-2650KD 122
LTC-2650KF 122
LTC-2650KR 122
LTC-2650KS 122
LTC-2650TBE 122

LTC-2721JD 117
LTC-2721JG 117
LTC-2721JR 117
LTC-2721KF 117
LTC-2721KS 117
LTC-2721TB 117
LTC-2723JD 121
LTC-2723JF 121
LTC-2723JG 121
LTC-2723JR 121
LTC-2723JS 121
LTC-2723TB 121
LTC-2750JG 122
LTC-2750KD 122
LTC-2750KF 122
LTC-2750KR 122
LTC-2750KS 122
LTC-2750TBE 122

LTC-3710KD 123
LTC-3710KG 123
LTC-3718KD 123
LTC-3718KG 123

LTC-4624JD 118
LTC-4624JG 118
LTC-4624JR 118
LTC-4624KF 118
LTC-4624KS 118
LTC-4624TB 118
LTC-4627JD 124
LTC-4627JF 124
LTC-4627JG 124
LTC-4627JR 124
LTC-4627JS 124
LTC-4627TB 124

LTC-4724JD 118
LTC-4724JG 118
LTC-4724JR 118
LTC-4724KF 118
LTC-4724KS 118
LTC-4724TB 118
LTC-4727JD 124
LTC-4727JF 124
LTC-4727JG 124
LTC-4727JR 124
LTC-4727JS 124
LTC-4727TB 124

Alphanumeric Index

LTC-5623JD 126
LTC-5623JG 126
LTC-5623KF 126
LTC-5623KR 126
LTC-5623KS 126
LTC-5623TB 126

LTC-5653KD-01 127
LTC-5653KF-01 127
LTC-5653KG-01 127
LTC-5653KR-01 127
LTC-5653KS-01 127
LTC-5653TB-01 127

LTC-5723JD 126
LTC-5723JG 126
LTC-5723KF 126
LTC-5723KR 126
LTC-5723KS 126
LTC-5723TB 126

LTC-5753KD-01 127
LTC-5753KF-01 127
LTC-5753KG-01 127
LTC-5753KR-01 127
LTC-5753KS-01 127
LTC-5753TB-01 127

LTC-7500KD 120
LTC-7500KF 120
LTC-7500KG 120
LTC-7500KR 120
LTC-7500KS 120

LTD-322JD 111
LTD-322JG 111
LTD-322KF 111
LTD-322KR 111
LTD-322KS 111
LTD-322TB 111
LTD-323JD 111
LTD-323JG 111
LTD-323KF 111
LTD-323KR 111
LTD-323KS 111
LTD-323TB 111

LTD-2404CKD-P 135
LTD-2404CKF-P 135
LTD-2404CKG-P 135
LTD-2404CKR-P 135
LTD-2404CKS-P 135
LTD-2404SW-P 135

LTD-2601JD 110
LTD-2601JG 110
LTD-2601KF 110
LTD-2601KR 110
LTD-2601KS 110
LTD-2601TB 110

LTD-2701JD 110
LTD-2701JG 110
LTD-2701KF 110
LTD-2701KR 110
LTD-2701KS 110
LTD-2701TB 110

LTD-4516CKD-PM 136
LTD-4516CKF-PM 136
LTD-4516CKG-PM 136
LTD-4516CKR-PM 136
LTD-4516CKS-PM 136
LTD-4516TBE-PM 136

LTD-4608JD 112
LTD-4608JG 112
LTD-4608JS 112
LTD-4608KF 112
LTD-4608KR 112
LTD-4608TB 112

LTD-4708JD 112
LTD-4708JG 112
LTD-4708JS 112
LTD-4708KF 112
LTD-4708KR 112
LTD-4708TB 112

LTD-5021AJD 114
LTD-5021TB 114
LTD-5023AJD 114
LTD-5023TB 114

LTD-5250JD 113
LTD-5250KF 113
LTD-5250KG 113
LTD-5250KR 113
LTD-5250KS 113
LTD-5250TB 113
LTD-5260KD 113
LTD-5260KF 113
LTD-5260KG 113
LTD-5260KR 113
LTD-5260KS 113
LTD-5260TB 113

LTD-5435CKD-P 137
LTD-5435CKF-P 137
LTD-5435CKG-P 137
LTD-5435CKR-P 137
LTD-5435CKS-P 137
LTD-5435TBE-P 137

LTD-5521AJR 114
LTD-5523AJR 114
LTD-5621AJG 114
LTD-5623AJG 114
LTD-5721AJS 114
LTD-5721AKF 114
LTD-5723AJS 114
LTD-5723AKF 114

LTD-6410KD 115
LTD-6410KF 115
LTD-6410KG 115
LTD-6410KR 115
LTD-6410KS 115
LTD-6410TB 115
LTD-6610KD 115
LTD-6610KF 115
LTD-6610KG 115
LTD-6610KR 115
LTD-6610KS 115
LTD-6610TB 115

LTD-8302KD 116
LTD-8302KF 116
LTD-8302KG 116
LTD-8302KR 116

LTD-8302KS 116
LTD-8302TB 116
LTD-8802KD 116
LTD-8802KF 116
LTD-8802KG 116
LTD-8802KR 116
LTD-8802KS 116
LTD-8802TB 116

LTDL-RA16A 223
LTDL-RA25A 223

LTDL-TA16A 222
LTDL-TA25A 222
LTDL-TA25B 223

LTE-7F70L 201

LTE-14H0B 199

LTE-16H0B 200
LTE-16K3L 198

LTE-18G3N 198
LTE-18H0B 200

LTE-32B0L 201
LTE-32B3L 201
LTE-32F0L 201

LTE-209 199

LTE-302 202
LTE-304 203
LTE-306 203
LTE-309 202

LTE-1650 198

LTE-2872U 202

LTE-3070L 201

LTE-3220L 201
LTE-3223L 201
LTE-3226 201
LTE-3271B 201
LTE-3271BL 201
LTE-3273DL 201
LTE-3273L 201
LTE-3276 201
LTE-3279K 201

LTE-3370L 201
LTE-3371T 201
LTE-3372 201
LTE-3376 201

LTE-3677 201

LTE-4206 198
LTE-4206C 198
LTE-4208 201
LTE-4209 198
LTE-4238R 201

LTE-5228A 201

LTE-7377L 203

LTE-C195IRG 209

LTE-C211-X 205
LTE-C216-P 205
LTE-C216R-14 205
LTE-C249 208
LTE-C269 208

LTE-C1501 204
LTE-C1506 204
LTE-C1901-ZF 204
LTE-C1906R-14 204

LTE-C9301 205
LTE-C9306 205
LTE-C9306R-14 205
LTE-C9501-E-T 206
LTE-C9506B 206
LTE-C9901 206

LTE-R38381-S 209
LTE-R38386-S 209
LTE-R38386-SE8 209
LTE-R38386S-S 209
LTE-R38386S-ZF 209
LTE-R38386-ZF 209
LTE-R38386-ZFE8 209
LTE-R38389S-S 209
LTE-R38831S-S 209

LTE-S3201 208
LTE-S3206 208
LTE-S9511-E 207
LTE-S9511TS 207
LTE-S9711-J 207

LTF-2505KD 128
LTF-2505KF 128
LTF-2505KG 128
LTF-2505KR 128
LTF-2505KS 128

LTF-2606KD 128
LTF-2606KF 128
LTF-2606KG 128
LTF-2606KR 128
LTF-2606KS 128

LTH-209-01 237

LTH-301-05 238
LTH-301-07 238
LTH-301-19 239
LTH-301-23 239
LTH-301-27P1 240
LTH-301-32 240
LTH-301-45W2 245
LTH-301A 241

LTH-306-01 241
LTH-306-02 242
LTH-306-04 242
LTH-306-06W1 245
LTH-306-09P1 245
LTH-306-11 243
LTH-306-41P1 243
LTH-306-53P1 244
LTH-306-64 244

Alphanumeric Index

LTH-1550-01 236
LTH-1550-06 237

LTH-1650-01 237

LTL1BEKVJNN 86

LTL1BESTBKJH185P 91

LTL1BETBEK5H149 92
LTL1BETBEK5-HF 86
LTL1BETBYJR5 86

LTL1CHKEKNN 83
LTL1CHKFKNN 83
LTL1CHKGKNN 83
LTL1CHKSKNN 83
LTL1CHTBK5 83
LTL1CHTGK6 83

LTL1NHEG6D 83
LTL1NHGB4D 83
LTL1NHSJ4D 83
LTL1NHTBH4J 83
LTL1NHTGT4TZ 83

LTL1SHER3D 178
LTL1SHEW3KS 178
LTL1SHTBN3DP 178
LTL1SHTGV3DP 178
LTL1SHYW3KS 178

LTL2H3E11K 181
LTL2H3TC21K 181
LTL2H3Y11K 181

LTL2P3EX2K 181
LTL2P3TCY2K 181
LTL2P3YX2K 181

LTL2R3FU3JSR 181

LTL2R3KFK 87
LTL2R3KG 87
LTL2R3KRK 87
LTL2R3KSK 87

LTL2R3TCY3JS 181
LTL2R3TGY3KS 181
LTL2R3YW3KS 181

LTL2T3TBK5 87
LTL2T3TGK6 87

LTL2V3EUJS 181
LTL2V3EY3KS 181

LTL3H3EPADS 179
LTL3H3TBNADS 179
LTL3H3TGTADS 179

LTL4HMEPADS 179
LTL4HMWSDS-A 179
LTL4HMYSADS 179

LTL4VMYS5D 180

LTL5H3TBDS 182
LTL5H3TGDS 182
LTL5H3TRDS 182
LTL5L3ES7D 182
LTL5L3TGV7D 182
LTL5L3YU7DS 182

LTL-14CDJNH79 94
LTL-14CM1H183 92
LTL-14CM01H232 95

LTL17HGL4T 87

LTL17KCBH5D 84
LTL17KCGP4J 84

LTL17KET3KS 84
LTL17KET3KS 178

LTL17KFL5D 84

LTL17KGH5D 84
LTL17KRH5D 84
LTL17KRL6D 84
LTL17KSL5D 84
LTL17KTBS3KS 84

LTL17KTBS3KS 178
LTL17KTGX3KS 84
LTL17KTGX3KS 178

LTL30EGCBKJ 88
LTL30EJ9NN 88
LTL30EKDFGJ 88

LTL30SETG3J 183

LTL-42M3NHKP 94
LTL-42M4NH106 93

LTL-42NEW8DHBP-1 90
LTL-42NGY8D2H214 93
LTL42NKFKNN 85
LTL42NKGKNN 85
LTL42NKRKNN 85
LTL42NKSKNN 85

LTL42TB6N 85
LTL42TG6N 85
LTL42TG6NH184 90

LTL67HGEJ 85

LTL750RGBHBJ 89

LTL-2300HR 155
LTL-2400Y 155
LTL-2500G 155
LTL-2620M 157
LTL-2655HR 156
LTL-2655JD 156
LTL-2720Y 157
LTL-2755Y 156

LTL-2800G 155
LTL-2820G 157
LTL-2855G 156

LTL-4201M 156

LTLA2H3VYY1K 166
LTLA2R3EW3K 166
LTLA2R3YW3K 166

LTLA916VAJ2K 167
LTLA916VYJ2K 167
LTLA918VEJ3K 167
LTLA918VYJ3K 167

LTL-M12RG1H300Q 97
LTL-M12YG1H300Q 98

LTL-R42M12NH51 96
LTL-R42NGYAD2H106 95
LTL-R42NGYADH229 96

LTM-0735G 157
LTM-0735SW 157

LTM-1008M 158
LTM-1302SM 159
LTM-1524KS 158
LTP-158FFKF 152
LTP-159FFKF 152
LTP-185FFMKD-J 153

LTP-229FFKF 153

LTP-537KD 139
LTP-537KF 139
LTP-537KG 139
LTP-537KR 139
LTP-537KS 139

LTP-587KD 139
LTP-587KF 139
LTP-587KG 139
LTP-587KR 139
LTP-587KS 139

LTP-747KD 144
LTP-747KF 144
LTP-747KG 144
LTP-747KR 144
LTP-747KS 144
LTP-757KD 144

LTP-757KF 144
LTP-757KG 144
LTP-757KR 144
LTP-757KS 144

LTP-1457KD 145
LTP-1457KF 145
LTP-1457KG 145
LTP-1457KR 145
LTP-1457KS 145

LTP-1557KD 145
LTP-1557KF 145
LTP-1557KG 145
LTP-1557KR 145
LTP-1557KS 145
LTP-1557TBE 145

LTP-2057AKA 146
LTP-2057AKR 146
LTP-2057AKY 146

LTP-2058AKD 148
LTP-2058AKF 148
LTP-2058AKG 148
LTP-2058AKR 148
LTP-2058AKS 148

LTP-2157AKA 146
LTP-2157AKR 146
LTP-2157AKY 146

LTP-2158AKD 148
LTP-2158AKF 148
LTP-2158AKG 148
LTP-2158AKR 148
LTP-2158AKS 148

LTP-3362JD 140
LTP-3362JF 140
LTP-3362JG 140
LTP-3362JR 140
LTP-3362JS 140

LTP-3363CKD-P 143
LTP-3363CKF-P 143
LTP-3363CKG-P 143
LTP-3363CKR-P 143
LTP-3363CKS-P 143

LTP-3784JG-01 142
LTP-3784KD-01 142
LTP-3784KF-01 142
LTP-3784KR-01 142
LTP-3784KS-01 142

LTP-3786JG-01 142
LTP-3786KD-01 142
LTP-3786KF-01 142
LTP-3786KR-01 142
LTP-3786KS-01 142

LTP-3862JD 140
LTP-3862JF 140
LTP-3862JG 140
LTP-3862JR 140
LTP-3862JS 140

LTP-4323JD 141
LTP-4323JG 141
LTP-4323KF 141
LTP-4323KR 141
LTP-4323KS 141

LTP-4823JD 141
LTP-4823JG 141
LTP-4823KF 141
LTP-4823KR 141
LTP-4823KS 141

LTP-4824CKD-P 143
LTP-4824CKF-P 143
LTP-4824CKG-P 143
LTP-4824CKR-P 143
LTP-4824CKS-P 143

LTP-7188KD 149
LTP-7188KF 149
LTP-7188KG 149
LTP-7188KR 149
LTP-7188KS 149

LTP-7488SF 151
LTP-7588SF 151

LTP-12788KD 149

Alphanumeric Index

LTP-12788KF 149
LTP-12788KG 149
LTP-12788KR 149
LTP-12788KS 149

LTP-14058AKD 147
LTP-14058AKF 147
LTP-14058AKG 147
LTP-14058AKR 147
LTP-14058AKS 147
LTP-14158AKD 147
LTP-14158AKF 147
LTP-14158AKG 147
LTP-14158AKR 147
LTP-14158AKS 147

LTP-18088KD 150
LTP-18088KF 150
LTP-18088KG 150
LTP-18088KR 150
LTP-18088KS 150

LTPA-C35NUAWP 169
LTPA-C35NUBBPPA 169

LTPA-C1915 170

LTPA-C3535ANPTB 169
LTPA-C3535AWP 169
LTPA-C3535BBPPA 169
LTPA-C3535BWP57 169
LTPA-C3535CNPKE 169
LTPA-C3535CNPTG 169

LTPA-H2S3138 170
LTPA-H3S4238 170
LTPA-H4S5338 170
LTPA-H5S6438 170

LTPA-P35PUCBPPA 168
LTPA-P35PUCWP 168
LTPA-P35PUDNPKE 168

LTPA-P3030ANPTB 168
LTPA-P3030CBPPA 168
LTPA-P3030CNPKE 168
LTPA-P3030CNPTG 168
LTPA-P3030CWP57 168

LTPA-P3535CBPPA 168
LTPA-P3535CWP 168

LTPA-S38FUMBPPA 169
LTPA-S38FUMWE 169

LTPL-A133DWARB 35
LTPL-A136DWAYB 35
LTPL-A155DWFWB 36
LTPL-A157DWFYB 36

LTPL-C08EAS 190
LTPL-C08ECT 190
LTPL-C08ERS 190

LTPL-C08UVH365 264
LTPL-C08UVH375 264
LTPL-C08UVH385 264
LTPL-C08UVH395 264
LTPL-C08UVH405 264

LTPL-C16FBD470 189
LTPL-C16FGH530 189
LTPL-C16FRD630 189
LTPL-C16FRD660 189
LTPL-C16FRM780 189

LTPL-C16FUVH400 265
LTPL-C16FUVM365 265
LTPL-C16FUVM375 265
LTPL-C16FUVM385 265
LTPL-C16FUVM395 265
LTPL-C16FUVM405 265

LTPL-C034AH610 190
LTPL-C034DH 190
LTPL-C034OH590 190

LTPL-C034UVD365 264
LTPL-C034UVD375 264
LTPL-C034UVD385 264
LTPL-C034UVD395 264
LTPL-C034UVD405 264
LTPL-C034UVH365 264
LTPL-C034UVH375 264
LTPL-C034UVH385 264
LTPL-C034UVH395 264
LTPL-C034UVH405 264
LTPL-C034UVH430 264

LTPL-C035BH450 189
LTPL-C035BH470 189
LTPL-C035GH500 189
LTPL-C035GH530 189
LTPL-C035RH630 189
LTPL-C035RH660 189
LTPL-C035RH730 189
LTPL-C035RN615 189

LTPL-C095WPGE 33
LTPL-C095WPRB 33
LTPL-C095WPYB 33

LTPL-C0673WPYB 32
LTPL-C0675WPGB 32
LTPL-C0675WPRB 32
LTPL-C0675WPYB 32
LTPL-C0677WPGB 32
LTPL-C0677WPHB 32
LTPL-C0677WPRB 32
LTPL-C0677WPYB 32
LTPL-C0678WPYB 32

LTPL-C0685WCGB 33

LTPL-C0695DAYD 34

LTPL-M03614ZS27-T0 192
LTPL-M03614ZS30-T0 192
LTPL-M03614ZS40-T0 192
LTPL-M03622ZS30-T0 192
LTPL-M03622ZS30-T0 192
LTPL-M03622ZS30-T0 192

LTPL-M04520QS30-T0 196
LTPL-M04520ZS27-T0 196
LTPL-M04520ZS30-T0 196
LTPL-M04520ZS40-T0 196
LTPL-M04530QS30-T0 196

LTPL-M04530ZS27-T0 196
LTPL-M04530ZS30-T0 196
LTPL-M04530ZS40-T0 196

LTPL-M07452ZS30-T0 194
LTPL-M07452ZS57-T0 194
LTPL-M07452ZS65-T0 194
LTPL-M07480ZS30-T0 194
LTPL-M07480ZS57-T0 194
LTPL-M07480ZS65-T0 194

LTPL-M08206QS30-T0 195
LTPL-M08206ZS27-T0 195
LTPL-M08206ZS30-T0 195
LTPL-M08206ZS40-T0 195
LTPL-M08210QS30-T0 195
LTPL-M08210ZS27-T0 195
LTPL-M08210ZS30-T0 195
LTPL-M08210ZS40-T0 195
LTPL-M08218QS30-T0 195
LTPL-M08218ZS27-T0 195
LTPL-M08218ZS30-T0 195
LTPL-M08218ZS40-T0 195

LTPL-M09825QS30-T0 193
LTPL-M09825ZS30-T0 193
LTPL-M09825ZS40-T0 193
LTPL-M09825ZS50-F1 193
LTPL-M09830QS30-T0 193
LTPL-M09830ZS30-T0 193
LTPL-M09830ZS40-T0 193
LTPL-M09830ZS50-F1 193

LTPL-M13706ZS27-T0 191
LTPL-M13706ZS30-T0 191
LTPL-M13706ZS40-T0 191
LTPL-M13706ZS50-F1 191
LTPL-M13710ZS27-T0 191
LTPL-M13710ZS30-T0 191
LTPL-M13710ZS40-T0 191
LTPL-M13710ZS50-F1 191
LTPL-M13712ZS27-T0 191
LTPL-M13712ZS30-T0 191
LTPL-M13712ZS40-T0 191
LTPL-M13712ZS50-F1 191

LTPL-P033BS30 188
LTPL-P033BS40 188
LTPL-P033BS50 188
LTPL-P033RGB 75

LTR-209 216
LTR-209H 216

LTR-301 217
LTR-303ALS 226
LTR-306 217
LTR-308ALS 227
LTR-309 217

LTR-323DB 210
LTR-329ALS 226

LTR-380RGB 227

LTR-390UV 228

LTR-507ALS 229
LTR-516AB 211
LTR-516AD 211
LTR-526AD 210
LTR-536AD 211
LTR-546AB 212
LTR-546AD 212

LTR-559ALS 230
LTR-578ALS 230
LTR-579ALS 231
LTR-580RGB 232
LTR-588RGB 232
LTR-590UV 233

LTR-659PS 228
LTR-676PS 229

LTR-733DBM1-TA 212
LTR-778ALS 231

LTR-800HR 234
LTR-801HR 234
LTR-806HR 235
LTR-810HR 235

LTR-820HR 236

LTR-1650D 215

LTR-3208 216
LTR-3208E 216

LTR-4206 215
LTR-4206E 215

LTR-5576D 219
LTR-5579DP1 218
LTR-5888DH 218
LTR-5986H 218

LTR-91400 233

LTR-C155-DB 213
LTR-C155-DC 213

LTR-C950-DB 214
LTR-C950-TB-T 220

LTR-C1503 219
LTR-C1903 219

LTR-C5510-DC 213
LTR-C5511-DB 213

LTR-C9303B 220
LTR-S320-DB-L 214
LTR-S320-TB 222

LTR-S951-TB 221
LTR-S971-TB 221

LTS-360KD 104
LTS-360KF 104
LTS-360KG 104
LTS-360KR 104
LTS-360KS 104
LTS-367KD 104
LTS-367KF 104
LTS-367KG 104
LTS-367KR 104
LTS-367KS 104

Alphanumeric Index

LTS-546AJD 106
LTS-546AJG 106
LTS-546AKF 106
LTS-546AKR 106
LTS-546AKS 106
LTS-546TB 106
LTS-547AJD 106
LTS-547AJG 106
LTS-547AJR 106
LTS-547AKF 106
LTS-547AKS 106
LTS-547TB 106

LTS-2301AJD 101
LTS-2301AJR 101
LTS-2301AKF 101
LTS-2301AKG 101
LTS-2301AKS 101
LTS-2301ATB 101

LTS-2306CKD-P 130
LTS-2306CKF-P 130
LTS-2306CKG-P 130
LTS-2306CKR-P 130
LTS-2306CKS-P 130
LTS-2306TBE-P 130

LTS-2307CKD-P 129
LTS-2307CKF-P 129
LTS-2307CKG-P 129
LTS-2307CKR-P 129
LTS-2307CKS-P 129
LTS-2307TBE-P 129

LTS-2801AJD 101
LTS-2801AJR 101
LTS-2801AKF 101
LTS-2801AKG 101
LTS-2801AKS 101
LTS-2801ATB 101

LTS-2806CKD-P 130
LTS-2806CKF-P 130
LTS-2806CKG-P 130
LTS-2806CKR-P 130
LTS-2806CKS-P 130
LTS-2806TBE-P 130

LTS-2807CKD-P 129
LTS-2807CKF-P 129
LTS-2807CKG-P 129
LTS-2807CKR-P 129
LTS-2807CKS-P 129
LTS-2807TBE-P 129

LTS-3361JD 102
LTS-3361JF 102
LTS-3361JG 102
LTS-3361JR 102
LTS-3361JS 102
LTS-3361TB 102

LTS-3385KD 103
LTS-3385KF 103
LTS-3385KG 103
LTS-3385KR 103
LTS-3385KS 103
LTS-3385TBE 103

LTS-3386CKD-P 131
LTS-3386CKF-P 131
LTS-3386CKG-P 131
LTS-3386CKR-P 131
LTS-3386CKS-P 131
LTS-3386CTB-P 131

LTS-3861JD 102
LTS-3861JF 102
LTS-3861JG 102
LTS-3861JR 102
LTS-3861JS 102
LTS-3861TB 102

LTS-3885KD 103
LTS-3885KF 103
LTS-3885KG 103
LTS-3885KR 103
LTS-3885KS 103
LTS-3885TBE 103

LTS-3886CKD-P 131
LTS-3886CKF-P 131
LTS-3886CKG-P 131
LTS-3886CKR-P 131
LTS-3886CKS-P 131
LTS-3886CTB-P 131

LTS-4301JD 105
LTS-4301JF 105
LTS-4301JG 105
LTS-4301JR 105
LTS-4301JS 105
LTS-4301TB 105

LTS-4312CKD-PM 132
LTS-4312CKF-PM 132
LTS-4312CKG-PM 132
LTS-4312CKR-PM 132
LTS-4312CKS-PM 132
LTS-4312TBE-PM 132

LTS-4317CKD-P 133
LTS-4317CKF-P 133
LTS-4317CKG-P 133
LTS-4317CKR-P 133
LTS-4317CKS-P 133
LTS-4317TBE-P 133

LTS-4801JD 105
LTS-4801JF 105
LTS-4801JG 105
LTS-4801JR 105
LTS-4801JS 105
LTS-4801TB 105

LTS-4812CKD-PM 132
LTS-4812CKF-PM 132
LTS-4812CKG-PM 132
LTS-4812CKR-PM 132
LTS-4812CKS-PM 132
LTS-4812TBE-PM 132

LTS-4817CKD-P 133
LTS-4817CKF-P 133
LTS-4817CKG-P 133
LTS-4817CKR-P 133
LTS-4817CKS-P 133
LTS-4817TBE-P 133

LTS-5001AJD 107
LTS-5001AJR 107
LTS-5003AJD 107
LTS-5003AJR 107

LTS-5325CKD-P 134
LTS-5325CKF-P 134
LTS-5325CKG-P 134
LTS-5325CKR-P 134
LTS-5325CKS-P 134
LTS-5325TBE-P 134

LTS-5501ATB 107
LTS-5503ATB 107
LTS-5601AJG 107
LTS-5603AJG 107
LTS-5701AJS 107
LTS-5701AKF 107
LTS-5703AJS 107
LTS-5703AKF 107

LTS-5825CKD-P 134
LTS-5825CKF-P 134
LTS-5825CKG-P 134
LTS-5825CKR-P 134
LTS-5825CKS-P 134
LTS-5825TBE-P 134

LTS-10304KD 108
LTS-10304KF 108
LTS-10304KG 108
LTS-10304KR 108
LTS-10304KS 108
LTS-10304TBE 108
LTS-10804KD 108
LTS-10804KF 108
LTS-10804KG 108
LTS-10804KR 108
LTS-10804KS 108
LTS-10804TBE 108

LTS-23305JG 109
LTS-23305KD 109
LTS-23305KF 109
LTS-23305KR 109
LTS-23305KS 109
LTS-23805JG 109
LTS-23805KD 109
LTS-23805KF 109
LTS-23805KR 109
LTS-23805KS 109

LTSA-C150KEKT 162
LTSA-C150KSKT 162
LTSA-C150TBK5 162
LTSA-C150TBV5 162
LTSA-C150TBW5 162
LTSA-C150TGK5 162

LTSA-C170KEKT 161
LTSA-C170KSKT 161
LTSA-C170TBKT 161
LTSA-C170TGKT 161
LTSA-C191KEKT 161
LTSA-C191KSKT 161
LTSA-C191TBK5 161
LTSA-C191TGK5 161

LTSA-E67RVAWT 165
LTSA-E67RVEWT 165
LTSA-E67RVSWT 165
LTSA-E67RZHET 165
LTSA-E67RZWET 165

LTSA-G6SPVAKT 166
LTSA-G6SPVEKT 166
LTSA-G6SPVSKT 166
LTSA-G6SVUAET 166
LTSA-G6SVUWET 166

LTSA-G683ZBEGWU 164

LTSA-M67KKEWT 162
LTSA-M67KKSWT 162
LTSA-M67KTBWT 162
LTSA-M67KTGWT 162
LTSA-M67KTHET 162
LTSA-M67KTWET 162

LTSA-S008RGBWA 165
LTSA-S33GBEGK5 164
LTSA-S089ZHET 163
LTSA-S089ZWET 163

LTSA-T680KEWT 163
LTSA-T680KSWT 163
LTSA-T680VEWT 163
LTSA-T680VSWT 163
LTSA-T680ZBWT-3 163
LTSA-T680ZGWT-3 163
LTSA-T680ZHET 163
LTSA-T680ZWET 163

LTSA-W150TBA5 162

LTSA-W170DBC5 161
LTSA-W170ZTBAT-WT 161
LTSA-W191DBS5 161

LTSN-B32JEGBB6 173
LTSN-B68JEGBB6 173

LTSN-C170DS 172
LTSN-C170KSWT 172
LTSN-C191DS 172
LTSN-C191KSKT 172

LTSN-D353EGBW 177

LTSN-E263HEGBK 174
LTSN-E363CEGBW 174

LTSN-H213EGBW 176

LTSN-N211QSWT 175
LTSN-N211UWET 175
LTSN-N211VSWT 175
LTSN-N213EGBW 176

LTST-006BGEW 80
LTST-006GEBW 80
LTST-008BGEW 81
LTST-008EGSW 81
LTST-008GEBW 81
LTST-008TGKEWT 79

LTST-010KFKT 77
LTST-010KGKT 77

Alphanumeric Index

LTST-010KRKT 77
LTST-010KSKT....77
LTST-010TBKT....77
LTST-010TGKT 77

LTST-020KFKT....78
LTST-020KGKT....78
LTST-020KRKT 78
LTST-020KSKT....78
LTST-020TBKT....78
LTST-020TGKT 78

LTST-108KFKT....79
LTST-108KGKT....79
LTST-108KRKT 79
LTST-108KSKT....79
LTST-108TBKT....79
LTST-108TGKT 79

LTST-5630UBWT....70
LTST-5630UGWT 70
LTST-5630ULWT....70
LTST-5630VDWT....70
LTST-5630VEWT....70
LTST-5630VSWT....70

LTST-A683BEGW....75
LTST-A683GEBW....75

LTST-B28JEGBB-5A 54

LTST-B680UGKT.... 175
LTST-B680UWET.... 175
LTST-B680VEKT.... 175
LTST-B680VSKT.... 175

LTST-C19DKFKT....44
LTST-C19DKRKT....44
LTST-C19DKSKT....44
LTST-C19DTGKT....44

LTST-C19FD1WT....57
LTST-C19GD2WT....57

LTST-C19HE1WT....55
LTST-C19HRGYW....55
LTST-C19JZEGB1W-5A 56
LTST-C19KBEGK-5A 55
LTST-C19MGEBK-5A....56

LTST-C21KFKT 49
LTST-C21KGKT....49
LTST-C21KRKT 49
LTST-C21KSKT 49
LTST-C21TBKT 49
LTST-C21TGKT....49

LTST-C28NBEGK-2A....54

LTST-C150KFKT....45
LTST-C150KGKT 45
LTST-C150KRKT....45
LTST-C150KSKT....45
LTST-C150TBKT....45
LTST-C150TGKT 45

LTST-C155KGJRKT....52
LTST-C155KGKFKT 52
LTST-C155TBJRKT 52

LTST-C170KFKT....45
LTST-C170KGKT 45
LTST-C170KRKT....45
LTST-C170KSKT....45
LTST-C170TBKT....45
LTST-C170TGKT 45

LTST-C171KFKT....44
LTST-C171KGKT 44
LTST-C171KRKT....44
LTST-C171KSKT....44
LTST-C171TBKT....44
LTST-C171TGKT 44

LTST-C190KFKT....43
LTST-C190KGKT 43
LTST-C190KRKT....43
LTST-C190KSKT....43
LTST-C190TBKT....43
LTST-C190TGKT 43
LTST-C191KFKT....43
LTST-C191KGKT 43
LTST-C191KRKT....43
LTST-C191KSKT....43
LTST-C191TBKT....43
LTST-C191TGKT 43

LTST-C193KFKT-5A 42
LTST-C193KGKT-5A....42
LTST-C193KRKT-5A....42
LTST-C193KSKT-5A 42
LTST-C193TBKT-5A 42
LTST-C193TGKT-5A....42

LTST-C194KFKT....42
LTST-C194KGKT 42
LTST-C194KRKT....42
LTST-C194KSKT....42
LTST-C194TBKT....42
LTST-C194TGKT 42

LTST-C195KGJRKT....51
LTST-C195KGKFKT 51
LTST-C195TBJRKT 51

LTST-C197KGKEKT 52
LTST-C197KGKSKT 52
LTST-C197TGKEKT 52

LTST-C198KFKT....41
LTST-C198KGKT 41
LTST-C198KRKT....41
LTST-C198KSKT....41
LTST-C198TBKT....41
LTST-C198TGKT 41

LTST-C216KFKT....49
LTST-C216KGKT 49
LTST-C216KRKT....49
LTST-C216KSKT....49
LTST-C216TBKT....49
LTST-C216TGKT 49

LTST-C230KFKT....47
LTST-C230KGKT 47
LTST-C230KRKT....47
LTST-C230KSKT....47
LTST-C230TBKT....47

LTST-C230TGKT 47

LTST-C231KFKT.....46
LTST-C231KGKT 46
LTST-C231KRKT.....46
LTST-C231KSKT.....46
LTST-C231TBKT.....46
LTST-C231TGKT 46

LTST-C235KGKRKT.....53
LTST-C235KGKSKT 53
LTST-C235TBJRKT 53

LTST-C250KFKT.....46
LTST-C250KGKT 46
LTST-C250KRKT.....46
LTST-C250KSKT.....46
LTST-C250TBKT.....46
LTST-C250TGKT 46

LTST-C255TBKFWT-5A.....53

LTST-C281KFKT-5A 41
LTST-C281KGKT-5A.....41
LTST-C281KRKT-5A.....41
LTST-C281KSKT-5A 41
LTST-C281TBKT-5A 41
LTST-C281TGKT-5A.....41

LTST-C283KFKT-5A 40
LTST-C283KGKT-5A.....40
LTST-C283KRKT-5A.....40
LTST-C283KSKT-5A 40
LTST-C283TBKT-5A 40
LTST-C283TGKT-5A.....40

LTST-C285KGKFWT-5A 50
LTST-C285TBKEWT-5A.....50
LTST-C285TGKFWT-5A 50
LTST-C295KGKFKT 50
LTST-C295KGKRKT.....50
LTST-C295TBKFKT.....50

LTST-C371JBKT 40
LTST-C371JGKT.....40
LTST-C371KFKT.....40
LTST-C371KGKT 40
LTST-C371KRKT.....40
LTST-C371KSKT.....40

LTST-C395KGKFKT 51
LTST-C395KGKRKT.....51
LTST-C395TBKFKT.....51

LTST-C0610UBWT 65
LTST-C0610UGWT.....65
LTST-C0610VEWT.....65
LTST-C0610VSWT.....65
LTST-C0610ZWET.....65

LTST-C930KFKT.....48
LTST-C930KGKT 48
LTST-C930KRKT.....48
LTST-C930KSKT.....48
LTST-C930TBKT.....48
LTST-C930TGKT 48

LTST-C950KFKT.....48
LTST-C950KGKT 48
LTST-C950KRKT.....48
LTST-C950KSKT.....48
LTST-C950TBKT.....48
LTST-C950TGKT 48

LTST-C990KFKT.....47
LTST-C990KGKT 47
LTST-C990KRKT.....47
LTST-C990KSKT.....47
LTST-C990TBKT.....47
LTST-C990TGKT 47

LTST-E680UBWT 70
LTST-E680UGWT.....70
LTST-E680VEWT.....70
LTST-E680VSWT.....70

LTST-E682KETBWT.....71
LTST-E682KGKFWT 71
LTST-E682KGKSWT.....71
LTST-E682KRKGWT.....71
LTST-E682TGKRWT 71

LTST-E683EGBW 73
LTST-E683EGSW 73
LTST-E683FGBW 73
LTST-E683RGBW.....73

LTST-F680UBET.....71
LTST-F680UBWT 71
LTST-F680UGWT.....71
LTST-F680VEWT.....71
LTST-F680VSWT.....71

LTST-G563BBBE 74
LTST-G563DDDW.....74
LTST-G563EEEW 74
LTST-G563SSSW 74
LTST-G563ZBBBW.....74
LTST-G563ZEGBW.....74
LTST-G563ZGGGW.....74

LTST-G683ESBW 72
LTST-G683GEBW 72
LTST-G683RGBW 72

LTST-M140KFKT.....67
LTST-M140KGKT 67
LTST-M140KRKT.....67
LTST-M140KSKT.....67
LTST-M140QEKT 67
LTST-M140QSKT.....67
LTST-M140TBKT.....67
LTST-M140TGKT 67

LTST-M230UBWT.....65
LTST-M230UGWT 65
LTST-M230VEWT 65
LTST-M230VSWT 65
LTST-M230ZWET 65

LTST-M670KFKT.....68
LTST-M670KGKT 68
LTST-M670KRKT.....68
LTST-M670KSKT.....68
LTST-M670TBKT.....68
LTST-M670TGKT 68

LTST-S32F1KT.....64

Alphanumeric Index

LTST-S33FBEGW-5A....62
LTST-S33GBEGK....63

LTST-S43FBEGW....63

LTST-S110KFKT....59
LTST-S110KGKT....59
LTST-S110KRKT....59
LTST-S110KSKT....59
LTST-S110TBKT....59
LTST-S110TGKT....59

LTST-S115KGJRKT....61
LTST-S115KGKFKT....61
LTST-S115TGKFKT....61

LTST-S220KFKT....59
LTST-S220KGKT....59
LTST-S220KRKT....59
LTST-S220KSKT....59
LTST-S220TBKT....59
LTST-S220TGKT....59

LTST-S270KFKT....58
LTST-S270KGKT....58
LTST-S270KRKT....58
LTST-S270KSKT....58
LTST-S270TBKT....58
LTST-S270TGKT....58

LTST-S310F3WT....64

LTST-S320KFKT....60
LTST-S320KGKT....60
LTST-S320KRKT....60
LTST-S320KSKT....60
LTST-S320TBKT....60
LTST-S320TGKT....60

LTST-S326KGJRKT....61
LTST-S326KGKFKT....61
LTST-S326TBKSKT....61

LTST-S327KGJRKT....62
LTST-S327KGJSKT....62
LTST-S327TBKFKT....62

LTST-S482KFKT-5A....58
LTST-S482KGKT-5A....58
LTST-S482KRKT-5A....58
LTST-S482KSKT-5A....58
LTST-S482TBKT-5A....58
LTST-S482TGKT-5A....58

LTST-T680KFWT....69
LTST-T680KGWT....69
LTST-T680KRWT....69
LTST-T680KSWT....69
LTST-T680QEWT....69
LTST-T680QSWT....69
LTST-T680TGWT....69
LTST-T680UBWT....69
LTST-T680UGWT....69
LTST-T680UWET....69
LTST-T680VEWT....69
LTST-T680VSWT....69

LTV-50LP....255
LTV-50LW....255

LTV-053L....255

LTV-60LP....256
LTV-60LW....256

LTV-063L....256

LTV-70LP....256
LTV-70LW....256

LTV-071L....256
LTV-073L....257
LTV-074L....256

LTV-152....258
LTV-155E....258

LTV-200....250
LTV-205....250
LTV-206....250
LTV-207....250
LTV-208....250
LTV-214....249

LTV-215....252
LTV-217....250
LTV-224....249
LTV-227....250
LTV-244....249
LTV-245....252
LTV-247....250

LTV-0314....259

LTV-314P....259
LTV-314W....259
LTV-340P....259
LTV-340W....259
LTV-341P....259
LTV-341W....259

LTV-352T....253
LTV-354T....250
LTV-355T....252
LTV-356T....250
LTV-357T....250
LTV-358T....250

LTV-0456....262

LTV-456P....262
LTV-456W....262

LTV-0480....261

LTV-480P....261
LTV-480W....261

LTV-0481....261

LTV-481P....261
LTV-481W....261

LTV-0501....255
LTV-0601....256
LTV-0701....257

LTV-702F....251
LTV-702V....251
LTV-715F....253

LTV-725F 253
LTV-725V 253
LTV-733 249

LTV-814 249
LTV-815 252
LTV-816 251
LTV-817 251
LTV-824 249
LTV-825 252
LTV-826 251
LTV-827 251
LTV-844 249
LTV-845 252
LTV-846 251
LTV-847 251
LTV-851 251
LTV-852 253

LTV-1000 250
LTV-1001 250
LTV-1002 250
LTV-1003 250
LTV-1004 250
LTV-1005 250
LTV-1006 250
LTV-1007 250
LTV-1008 250
LTV-1009 250
LTV-1010 250
LTV-1014 250
LTV-1018 250
LTV-1019 250

LTV-1100 251
LTV-1101 251
LTV-1102 251
LTV-1103 251
LTV-1104 251
LTV-1105 251
LTV-1106 251
LTV-1107 251
LTV-1108 251
LTV-1109 251

LTV-3023 254
LTV-3052 254
LTV-3063 254
LTV-3083 254

LTV-3120 258
LTV-3150 258
LTV-3150-L 258
LTV-3180 258

LTV-4506 262
LTV-4800 262
LTV-4800-7 262
LTV-4801 262

LTV-8141 253
LTV-8241 253
LTV-8441 253

LTV-M456 262
LTV-M480 261
LTV-M481 261
LTV-M501 255
LTV-M601 256
LTV-M701 257

LTV-T350 258

LTW-1BEEDNJZ 86
LTW-1BETBKJLC 86

LTW-1CHDS4 83
LTW-1GHCV4 83

LTW-1NHDR5JH231 91
LTW-1NHDR7JW 83
LTW-1NHDY2 83

LTW-2H3D51K 88
LTW-2L3DV5 87
LTW-2P3D52K 88
LTW-2R3D43K 88
LTW-2S3D8 87
LTW-2S3D8-CY 181
LTW-2V3D13JS 181
LTW-2V3DS3 87
LTW-2W3DRA 87

LTW4HMDVAJS 179
LTW4VMDV5JS 180

LTW5H3DVAJS 182
LTW5L3DW7JS 182

LTW-006DCG-E2 78
LTW-008RGB2-PH1 81
LTW-008ZDCG 79
LTW-010DCG 77
LTW-010DCG-TR 77
LTW-010SCB 77
LTW-010SCG 77
LTW-010SCR 77
LTW-010SCSK 77
LTW-010SCVL 77

LTW-17HDU6J 87
LTW-17HDW5J 87
LTW-17HDY4 87
LTW-17KDU4Z 84

LTW-020ZDCG 78

LTW-21TS5 49

LTW-42NDH8JH227 91
LTW-42NDH8JH229 93
LTW-42NDP4 85
LTW-42NDP4H218 90

LTW-87HD4BSZ 83

LTW-108SEG-W 79
LTW-110TS5 59
LTW-150ZDS5 45
LTW-170ZDC 45
LTW-198ZDS5 41

LTW-206DCG-TM 78
LTW-206DCG-TMS 78
LTW-206KRKT 78
LTW-206VFKT-PX 78

LTW-216TS5 49

Alphanumeric Index

LTW-270TLA 58
LTW-295DSKS-5A 50

LTW-303DCG-KB 76
LTW-326DSKF-5A 61
LTW-327DSKF-5A 62

LTW-670BS470 69
LTW-670DS-EL 69
LTW-670GS525 69
LTW-670OS607 69
LTW-670RS625 69
LTW-670YS587 69

LTW-2835AZH27 186
LTW-2835AZH30 186
LTW-2835AZH40 186
LTW-2835AZH50 186
LTW-2835AZH57 186
LTW-2835AZH65 186
LTW-2835AZI27 186
LTW-2835AZI30 186
LTW-2835AZI40 186
LTW-2835AZI50 186
LTW-2835AZI57 186
LTW-2835AZI65 186
LTW-2835AZL27 186
LTW-2835AZL30 186
LTW-2835AZL40 186
LTW-2835AZL50 186
LTW-2835AZL57 186
LTW-2835AZL65 186

LTW-2835SZK27 186
LTW-2835SZK30 186
LTW-2835SZK40 186
LTW-2835SZK50 186
LTW-2835SZK57 186
LTW-2835SZK65 186

LTW-2835TZN27 186
LTW-2835TZN30 186
LTW-2835TZN40 186
LTW-2835TZN50 186
LTW-2835TZN57 186
LTW-2835TZN65 186

LTW-5630AQL27 187
LTW-5630AQL30 187
LTW-5630AQL40 187
LTW-5630AQL50 187
LTW-5630AQL57 187
LTW-5630AQL65 187

LTW-5630AZL27-EUH 187
LTW-5630AZL30-EUH 187
LTW-5630AZL40-EUH 187
LTW-5630AZL50-EUH 187
LTW-5630AZL57-EUH 187
LTW-5630AZL65-EUH 187

LTW-5630SD458 187
LTW-5630SD470 187
LTW-5630SD530 187
LTW-5630SD590 187
LTW-5630SD630 187
LTW-5630SP660 187
LTW-5630SP730 187
LTW-5630SP750 187

LTW-9301ZDS5 48
LTW-9501ZDS5 48

LTW-C19DZDS5 44
LTW-C190DA5 43
LTW-C191TS5 43
LTW-C193TS5 42
LTW-C194TS5 42
LTW-C195DSKS-5A 51

LTW-C230DS 47
LTW-C231DS 46
LTW-C235DSKF-5A 53

LTW-C250DC5 46
LTW-C255DCKF-5A 53

LTW-C281DS5 41
LTW-C283DS5 40
LTW-C285DSKG-5A 50

LTW-C371US5 40

LTW-C9301DS5 48
LTW-C9501DS5 48

LTW-K140BS470 66
LTW-K140GS525 66
LTW-K140OS607 66
LTW-K140RS625 66
LTW-K140SCGD 66
LTW-K140SCIB 66
LTW-K140SCSK 66
LTW-K140SCTF 66
LTW-K140SCVL 66

LTW-K140SXR85 185
LTW-K140SZR27-EU 185
LTW-K140SZR30-EU 185
LTW-K140SZR40-EU 185
LTW-K140SZR50-EU 185
LTW-K140SZR57-EU 185
LTW-K140SZR65-EU 185

LTW-K140YS587 66

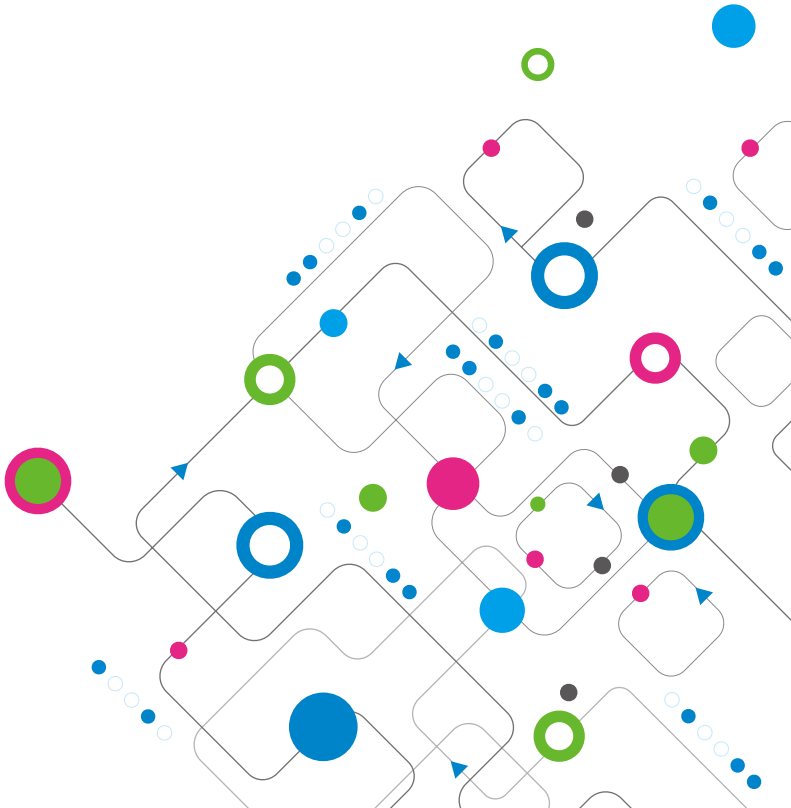
LTW-M140ZVS 67
LTW-M670ZVS-M5 68

LTW-Q35ZRGB 74
LTW-R4MLDGDJH234 89

LTW-S115KFDS-5A 61
LTW-S221DS 59
LTW-S321ZDS5 60
LTW-S482DS5 58
LTW-S850DC5 60

MOC3023 254
MOC3052-H 254
MOC3052-L 254
MOC3063 254
MOC3083 254

Products & Solutions



Products & Solutions in Mobile & Wearable Devices

Environmental Monitoring

UV Detector

Health Care

Heart Rate Monitor
/ Pulse oximetry

Status Display

Indicator

UV sensor

Health Sensor

SMD LED

Camera Flash

Illumination

Entertainment

Remote Control

Smart Adjusting

Detect Object Presence Turn On/Off Screen
Screen Brightness/Color Temperature Adjusting

Flash LED

Infrared LED

Proximity Sensor

Ambient Light Sensor

RGB Sensor

Integrated Sensor (PS+ALS+IR)

Positioning

Position Tracking & Mapping

Infrared LED

Photodiode

SMD LED

Convenient

Gesture Recognition

Gesture Sensor

Security

Iris Recognition

Infrared LED

Products & Solutions in Smart Home & Appliances

Isolation

Power Supply

Photocoupler

Power Management

Power Source

Photocoupler

Isolation

Communication Isolation

Photocoupler

Obstacle Avoidance

Object Detecting

Infrared Emitter & Detector

Smart Switch

Touchless Light Switch

Proximity Sensor

Program Selecting

Detect Color (of Clothes)

RGB Sensor

Status Display

Indicator

SMD LED

LED Display

LAMP

Isolation

Inverter / Motor Control

Photocoupler

Convenient

Remote Control

Infrared Emitter

Products & Solutions in Automotive

CHMSL

- Piranha
- PLCC Top View LED

Side Turn Indicator

- PLCC 4/6 Top View LED

RCL (Rear Combination Light)

- PLCC 4/6 Top View LED
- High Power LED

Light Sensing

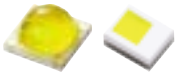
- Ambient Light Sensor

Headlight (High/Low Beam)

2 to 5 multi-chips array LED

Single Die High Power LED

Daytime Running Light / Front Position

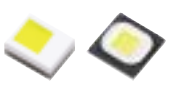


High Power LED

Decorative/ Ambient Light
Dashboard Lights
Interior Lighting/ Reading Light

Front Fog Light

2 chips array LED



Single Die
High Power LED

Interior Lighting

SMD LED

MiniTop LED

PLCC Side View LED

RGB 3-in-1 LED

Products & Solutions in Industrial

Protection

Isolation

Photocoupler

Status Display

Status Display

SMD LED

High Power LED

LED Display

Safety Guards

Object Detecting

Infrared Emitter and Detector

Isolation

Signal Isolation

Photocoupler

Isolation

Inverter / Motor Control

Photocoupler

Transmission

Data Communication

Infrared Emitter and Detector

Products & Solutions in Surveillance & Security

Night Vision Assistance

Illumination

Infrared LED

Status Display

Indicator

Smart Switch

Touchless Light Switch

SMD LED

Proximity Sensor

Detection

Detecting Particles

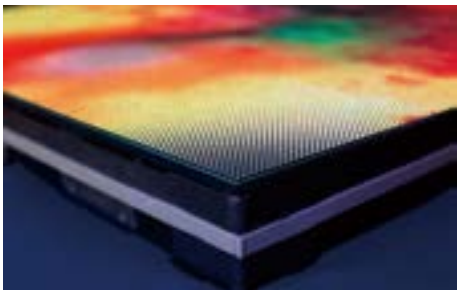
Security

Facial & Iris Recognition

IR Emitter
& Detector

Infrared LED

Products & Solutions in Signage & Street Lighting



Indoor

P2.5

Fine Pitch

SMD Chip LED

SMD LED PLCC 2/4/6

Outdoor

P12

Pure outdoor

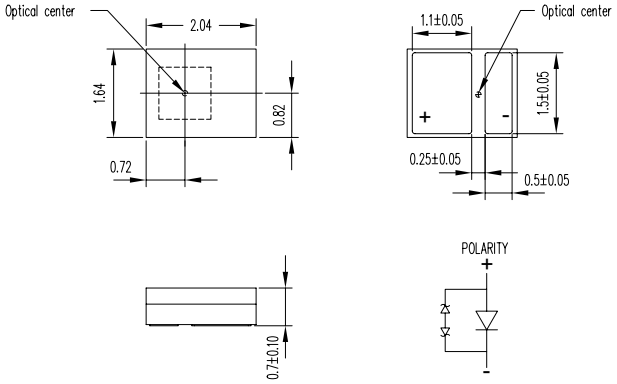
Through Hole Lamp

High Power White LED

Flash LED

Flash LED_2016 Package

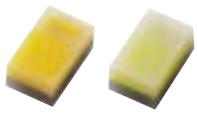
2.0 x 1.6 x 0.7 mm



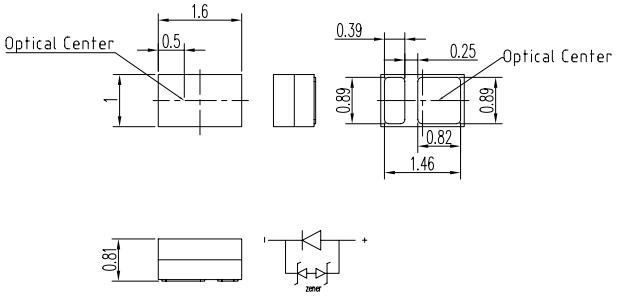
Part No.	Correlated color temperature (K)	CRI	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F* (mA)	Thermal Resistance R_{th} (j-s) (°C/W)	Peak Pulsed Forward Current I_F** (mA)	Max. Junction Temperature Tj (°C)	Operating Temperature Range (°C)
LTPL-C0678WPYB	5000~6000K	NCRI	320	120	3.4	1000	3	1500	125	-40~85
LTPL-C0677WPYB	5000~6000K	NCRI	300	120	3.4	1000	4	1500	125	-40~85
LTPL-C0675WPYB	5000~6000K	NCRI	260	120	3.4	1000	7	1500	125	-40~85
LTPL-C0673WPYB	5000~6000K	NCRI	240	120	3.4	1000	8	1500	125	-40~85
LTPL-C0677WPRB	2000~2500K	NCRI	230	120	3.4	1000	5	1500	125	-40~85
LTPL-C0675WPRB	2000~2500K	NCRI	200	120	3.4	1000	8	1500	125	-40~85
LTPL-C0677WPGB	5000~6000K	80	270	120	3.4	1000	4	1500	125	-40~85
LTPL-C0675WPGB	5000~6000K	80	220	120	3.4	1000	7	1500	125	-40~85
LTPL-C0677WPHB	5000~6000K	90	240	120	3.4	1000	3	1500	125	-40~85

* Electro-optical testing conducted in single pulse mode, T_{ON}=300ms, I_F=1000mA
** Peak pulsed forward current applies to 50ms:on, 950ms: Off, D: 0.05

Flash LED_1610 Package



1.6 x 1.0 x 0.81 mm

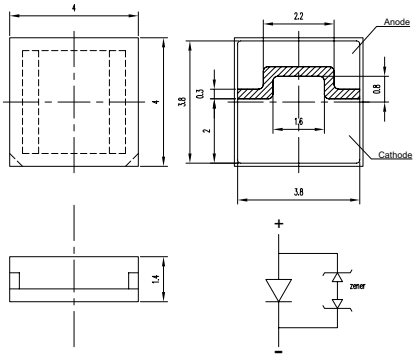


Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F* (mA)	Thermal Resistance R_{th} (j-s) (°C/W)	Peak Pulsed Forward Current I_F** (mA)	Max. Junction Temperature Tj (°C)	Operating Temperature Range (°C)
LTPL-C095WPGE	4500~5500	80	120	3.1	350	10	1000	125	-40~85
LTPL-C095WPYB	5000~6000	220	120	3.4	1000	10	1000	125	-40~85
LTPL-C095WPRB	2000~2500	180	120	3.4	1000	10	1000	125	-40~85

* Electro-optical testing conducted in single pulse mode, T_{ON}=300ms, I_F=1000mA
** Peak pulsed forward current applies to 400ms:on, 3600ms: Off, D: 0.1

Flash LED_Module Type

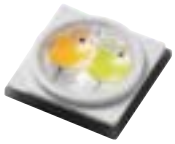
4.0 x 4.0 x 1.4 mm



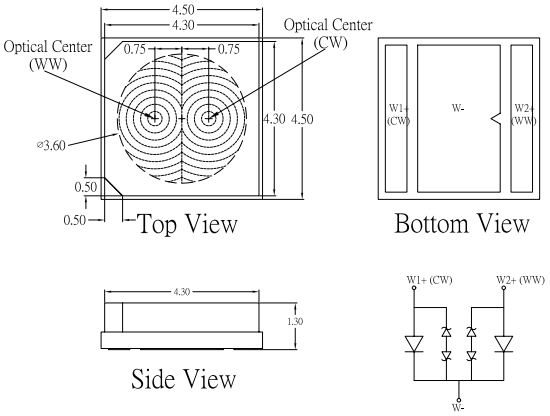
Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F* (mA)	Thermal Resistance R_{th} (j-s) (°C/W)	Peak Pulsed Forward Current I_F** (mA)	Max. Junction Temperature Tj (°C)	Operating Temperature Range (°C)
LTPL-C0685WCGB	4500~6000K	200	75/55	3.5	1000	15	1500	140	-40~85

* Electro-optical testing conducted in single pulse mode, T_{ON}=300ms, I_F=1000mA
** Peak pulsed forward current applies to 50ms:on, 950ms: Off, D: 0.05

Flash LED_Module Type



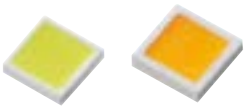
4.5 x 4.5 x 1.3 mm



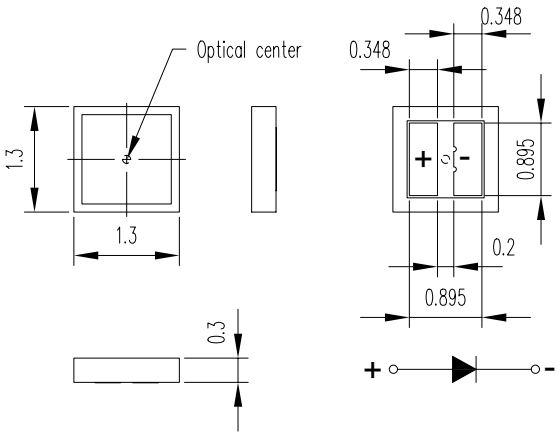
Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F* (mA)	Thermal Resistance R_{th} (j-s) (°C/W)	Peak Pulsed Forward Current I_F** (mA)	Max. Junction Temperature Tj (°C)	Operating Temperature Range (°C)
LTPL-C0695DAYD	5000~6000K	210	83	3.4	1000	10	1500	140	-40~85
	2000~2500K	160							

* Electro-optical testing conducted in single pulse mode, T_{ON}=300ms, I_F=1000mA
** Peak pulsed forward current applies to 50ms:on, 950ms: Off, D: 0.05

Flash LED_CSP Type



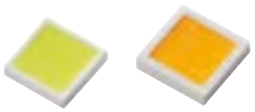
1.3 x 1.3 x 0.3 mm



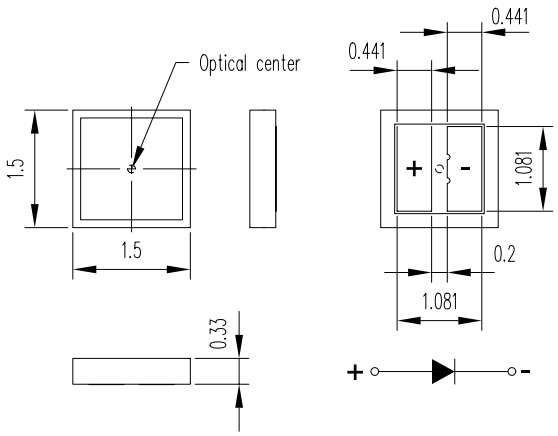
Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F* (mA)	Thermal Resistance R_{th} (j-s) (°C/W)	Peak Pulsed Forward Current I_F** (mA)	Max. Junction Temperature Tj (°C)	Operating Temperature Range (°C)
LTPL-A136DWAYB	5000~6000K	270	120	3.4	1000	2.4	1500	125	-40~85
LTPL-A133DWARB	2000~2500K	190	120	3.4	1000	2.4	1500	125	-40~85

* Electro-optical testing conducted in single pulse mode, T_{ON}=300ms, I_F=1000mA
** Peak pulsed forward current applies to 400ms:on, 3600ms: Off, D: 0.1

Flash LED_CSP Type



1.5 x 1.5 x 0.33 mm



Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F* (mA)	Thermal Resistance R_{th} (j-s) (°C/W)	Peak Pulsed Forward Current I_F** (mA)	Max. Junction Temperature Tj (°C)	Operating Temperature Range (°C)
LTPL-A157DWFYB	5000~6000K	300	120	3.4	1000	2	1500	125	'-40~85
LTPL-A155DWFWB	2000~2500K	240	120	3.4	1000	2	1500	125	'-40~85

* Electro-optical testing conducted in single pulse mode, T_{ON}=300ms, I_F=1000mA
** Peak pulsed forward current applies to 400ms:on, 3600ms: Off, D: 0.1

SMD LED

SMD Product Quick View Table

Chip LED_Top view

Color	Single color								
Product Type	General						Reverse Mount		
Dimension (mm)	0.6x0.3	1.0x0.8	1.6x0.8	1.6x0.9	2.0x1.25	2.0x1.25	3.2x0.8	3.2x1.2	3.2x1.6
2.4t									
1.85t									
1.1t					C170	C150			C230
0.98t									
0.85t									
0.8t			C190		C171			C250	
0.75t				C19D					
0.7t							C231		
0.65t									
0.6t									
0.55t			C191						
0.5t									
0.4t									
0.35t	C371	C281	C193						
0.3t			C194						
0.2t		C283	C198						

I= individual Circuit A=Common Anode C=Common Cathode * Please refer to Signage LED

Color	Single color				Dual Color							Multi Color			
Product Type	Dome Lens			Inner Lens	General					Reverse Mount		General			
Dimension (mm)	1.6x0.8	3.2x1.6	3.2x2.4	3.2x1.6	1.0x0.5	1.6x0.8	1.6x1.25	1.6x1.5	3.2x2.7	3.2x1.2	3.2x1.6	0.8x0.8	1.0x1.0	1.6x1.6	1.6x2.1
2.4t			C930												
1.85t		C950													
1.1t				C21					C155		C235				
0.98t	C990														
0.85t															
0.8t										C255					
0.75t															
0.7t								C197							
0.65t												*B68J (A)	*B32J (A)		
0.6t				C216											
0.55t						C295	C395	C195							C19F (A)
0.5t													B28J (A)	C19J C19M (I)	
0.4t															C19G (A)
0.35t					C285									C19H (A) C19K (I)	
0.3t															
0.2t													C28N		

I= individual Circuit A=Common Anode C=Common Cathode * Please refer to Signage LED

SMD Product Quick View Table

Chip LED_Side View

Color	Single Color						Dual Color		Multi Color		
Product Type	General					Reflector	General		General		
Dimension (mm)	1.6x1.15	1.8x1.0	2.1x1.0	3.2x1.5	3.2x2.0	1.4x0.8	3.2x1.5	3.2x2.0	3.0x1.0	3.2x1.5	3.2x2.0
1.0t				S110	S320		S115(A)	S326(A) S327(C)		S310(A) S311(C)	S32F(A)
0.6t	S270		S220						S33G(A)		
0.5t											
0.4t						S850			S33F(A) S43F(C)		
0.3t		S482									

A=Common Anode C=Common Cathode

PLCC_Top View

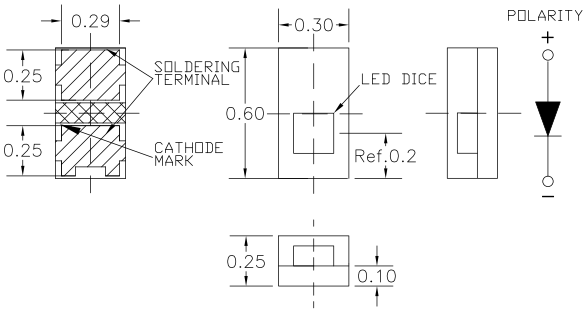
Color	Single Color								Dual Color	Multi Color				
Dimension (mm)	2.0x1.6	2.3x1.4	2.7x1.4	3.0x1.4	3.0x2.0	3.5x2.8	5.6x3.0	6.2x2.8	3.5x2.8	3.5x2.8	3.5x3.2	5.4x5.0	6.2x2.8	7.4x5.0
1.9t						T680/670 (PLCC2) E680 (PLCC4)		F680	E682				A683	
1.6t												G563		
1.3t		M230			M670					G683				P033
1.2t				M140										
0.9t							5630							
0.8t			K140											
0.65t											Q35			
0.55t	C0610													
0.3t														

PLCC_Side View

Color	Single Color				Dual Color	Multi Color	
Dimension (mm)	2.8x1.2	3.0x0.85	3.8x1.0	3.8x1.2	4.5x1.25	4.5x1.0	4.5x1.25
0.8t	108 008				008		008
0.6t			206	020 006		006	
0.4t			010				
0.35t		303					

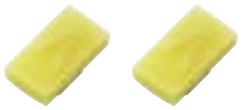
Chip LED_Top View

0.6 x 0.3 x 0.25 mm

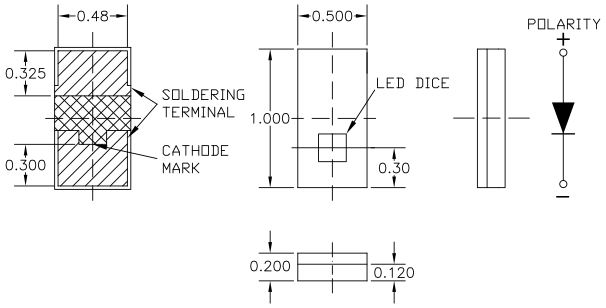


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C371KRKT	Red	631	60	130	2.0	20
LTST-C371KFKT	Orange	605	90	130	2.0	20
LTST-C371KSKT	Yellow	589	50	130	2.0	20
LTST-C371KGKT	Yellow Green	571	35	130	2.0	20
LTST-C371JGKT	True Green	525	150	130	3.3	20
LTST-C371JBKT	Blue	470	50	130	3.3	20
LTW-C371US5	White	(0.304, 0.301)	112	130	2.9	5

Chip LED_Top View

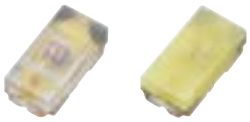


1.0 x 0.5 x 0.2 mm

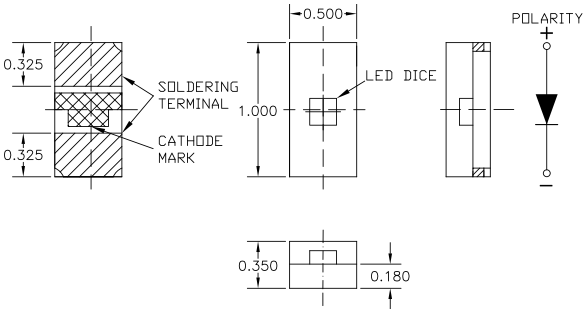


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C283KRKT-5A	Red	631	60	130	2.0	5
LTST-C283KFKT-5A	Orange	605	90	130	2.0	5
LTST-C283KSKT-5A	Yellow	589	50	130	2.0	5
LTST-C283KGKT-5A	Yellow Green	571	35	130	2.0	5
LTST-C283TGKT-5A	True Green	525	150	130	2.9	5
LTST-C283TBKT-5A	Blue	470	50	130	2.9	5
LTW-C283DS5	White	(0.304, 0.301)	112	130	2.9	5

Chip LED_Top View

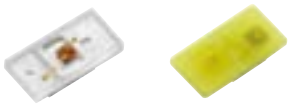


1.0 x 0.8 x 0.35 mm

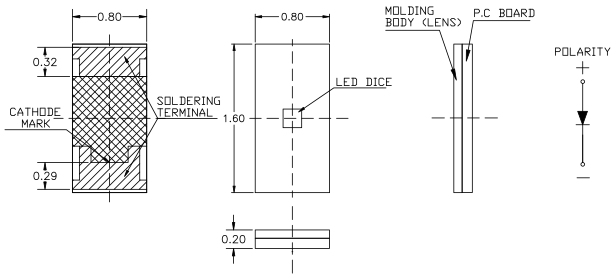


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C281KRKT-5A	Red	631	11.2	130	1.9	5
LTST-C281KFKT-5A	Orange	605	28	130	1.9	5
LTST-C281KSKT-5A	Yellow	589	18	130	1.9	5
LTST-C281KGKT-5A	Yellow Green	571	7.1	130	1.9	5
LTST-C281TGKT-5A	True Green	525	71	130	2.9	5
LTST-C281TBKT-5A	Blue	470	28	130	2.9	5
LTW-C281DS5	White	(0.304, 0.301)	112	130	2.9	5

Chip LED_Top View



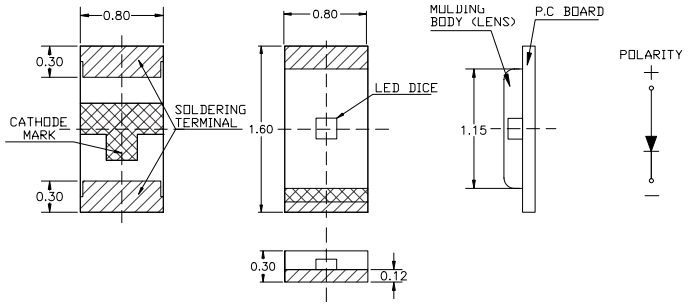
1.6 x 0.8 x 0.2 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C198KRKT	Red	631	60	130	2.0	20
LTST-C198KFKT	Orange	605	90	130	2.0	20
LTST-C198KSKT	Yellow	589	50	130	2.0	20
LTST-C198KGKT	Yellow Green	571	35	130	2.0	20
LTST-C198TGKT	True Green	525	150	130	3.3	20
LTST-C198TBKT	Blue	470	50	130	3.3	20
LTW-198ZDS5	White	(0.31, 0.33)	180	130	2.9	5

Chip LED_Top View

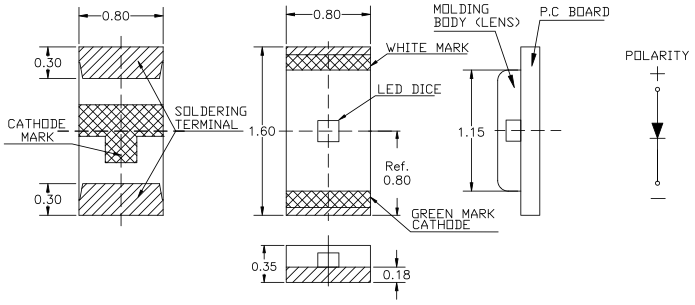
1.6 x 0.8 x 0.3 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C194KRKT	Red	631	60	130	2.0	20
LTST-C194KFKT	Orange	605	90	130	2.0	20
LTST-C194KSKT	Yellow	589	50	130	2.0	20
LTST-C194KGKT	Yellow Green	571	35	130	2.0	20
LTST-C194TGKT	True Green	525	150	130	3.3	20
LTST-C194TBKT	Blue	470	50	130	3.3	20
LTW-C194TS5	White	(0.294, 0.286)	100	130	2.9	5

Chip LED_Top View

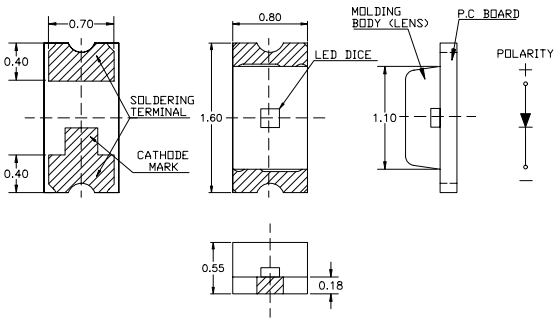
1.6 x 0.8 x 0.35 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C193KRKT-5A	Red	631	11.2	130	1.9	5
LTST-C193KFKT-5A	Orange	605	28	130	1.9	5
LTST-C193KSKT-5A	Yellow	589	18	130	1.9	5
LTST-C193KGKT-5A	Yellow Green	571	7.1	130	1.9	5
LTST-C193TGKT-5A	True Green	525	71	130	2.9	5
LTST-C193TBKT-5A	Blue	470	15	130	2.9	5
LTW-C193TS5	White	(0.294, 0.286)	112	130	2.9	5

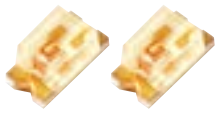
Chip LED_Top View

1.6 x 0.8 x 0.55 mm

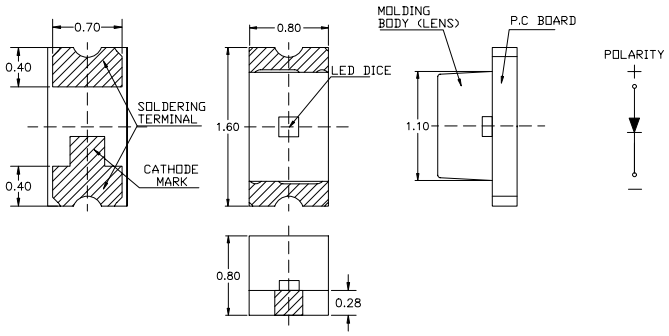


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C191KRKT	Red	631	60	130	2.0	20
LTST-C191KFKT	Orange	605	90	130	2.0	20
LTST-C191KSKT	Yellow	589	50	130	2.0	20
LTST-C191KGKT	Yellow Green	571	35	130	2.0	20
LTST-C191TGKT	True Green	525	150	130	3.3	20
LTST-C191TBKT	Blue	470	50	130	3.3	20
LTW-C191TS5	White	(0.294, 0.286)	112	130	2.9	5

Chip LED_Top View

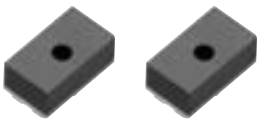


1.6 x 0.8 x 0.8 mm

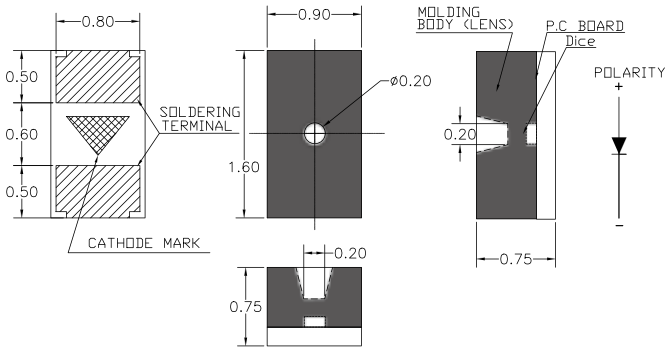


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C190KRKT	Red	631	60	130	2.0	20
LTST-C190KFKT	Orange	605	90	130	2.0	20
LTST-C190KSKT	Yellow	589	50	130	2.0	20
LTST-C190KGKT	Yellow Green	571	35	130	2.0	20
LTST-C190TGKT	True Green	525	150	130	3.3	20
LTST-C190TBKT	Blue	470	50	130	3.3	20
LTW-C190DA5	White	(0.203, 0.319)	112	130	2.9	5

Chip LED_Top View

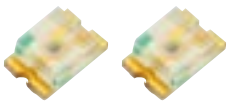


1.6 x 0.9 x 0.75 mm

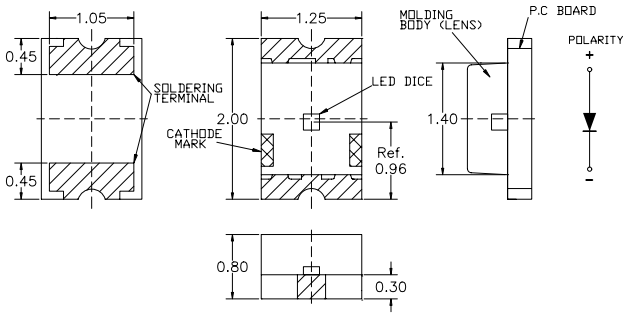


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19DKRKT	Red	631	18	50	2.0	20
LTST-C19DKFKT	Orange	605	16	50	2.0	20
LTST-C19DKSKT	Yellow	589	18	50	2.0	20
LTST-C19DTGKT	True Green	525	100	50	2.8	20
LTW-C19DZDS5	White	(0.27, 0.26)	30	50	2.8	5

Chip LED_Top View



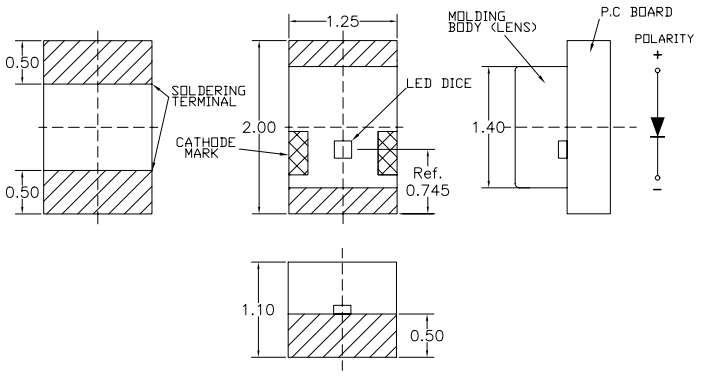
2.0 x 1.25 x 0.8 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C171KRKT	Red	631	60	130	2.0	20
LTST-C171KFKT	Orange	605	90	130	2.0	20
LTST-C171KSKT	Yellow	589	50	130	2.0	20
LTST-C171KGKT	Yellow Green	571	35	130	2.0	20
LTST-C171TGKT	True Green	525	180	130	3.3	20
LTST-C171TBKT	Blue	470	50	130	3.3	20

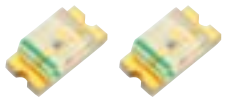
Chip LED_Top View

2.0 x 1.25 x 1.1 mm

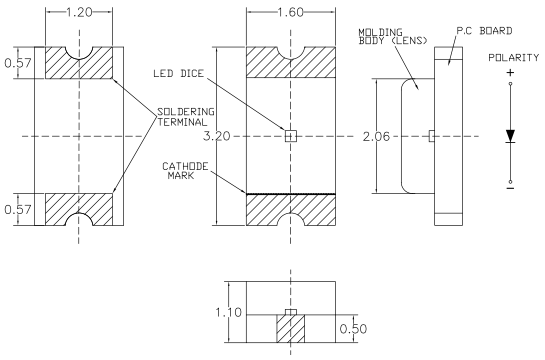


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C170KRKT	Red	631	60	130	2.0	20
LTST-C170KFKT	Orange	605	90	130	2.0	20
LTST-C170KSKT	Yellow	589	50	130	2.0	20
LTST-C170KGKT	Yellow Green	571	35	130	2.0	20
LTST-C170TGKT	True Green	525	180	130	3.3	20
LTST-C170TBKT	Blue	470	50	130	3.3	20
LTW-170ZDC	White	(0.30, 0.30)	280	130	3.3	20

Chip LED_Top View

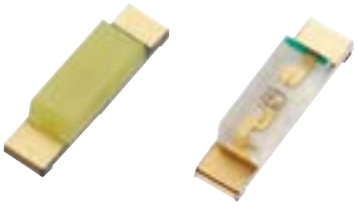


3.2 x 1.6 x 1.1 mm

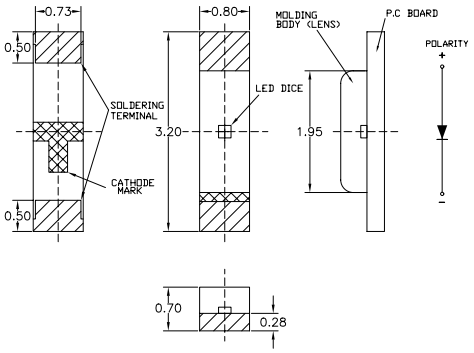


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C150KRKT	Red	631	60	130	2.0	20
LTST-C150KFKT	Orange	605	90	130	2.0	20
LTST-C150KSKT	Yellow	589	50	130	2.0	20
LTST-C150KGKT	Yellow Green	571	35	130	2.0	20
LTST-C150TGKT	True Green	525	150	130	3.3	20
LTST-C150TBKT	Blue	470	50	130	3.3	20
LTW-150ZDS5	White	(0.31, 0.32)	112	130	2.9	5

Chip LED_Top View_Reverse Mount

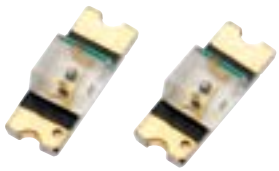


3.2 x 0.8 x 0.7 mm

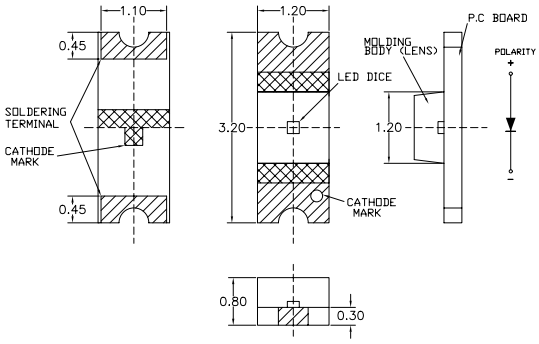


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C231KRKT	Red	631	60	130	2.0	20
LTST-C231KFKT	Orange	605	90	130	2.0	20
LTST-C231KSKT	Yellow	589	50	130	2.0	20
LTST-C231KGKT	Yellow Green	571	35	130	2.0	20
LTST-C231TGKT	True Green	525	150	130	3.3	20
LTST-C231TBKT	Blue	470	50	130	3.3	20
LTW-C231DS	White	(0.31, 0.32)	280	130	3.3	20

Chip LED_Top View_Reverse Mount

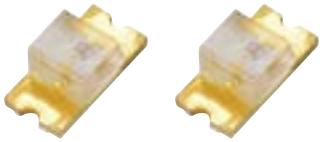


3.2 x 1.2 x 0.8 mm

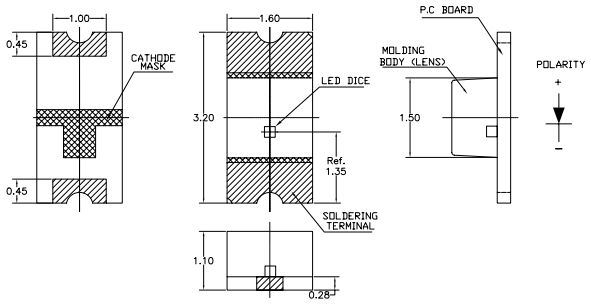


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C250KRKT	Red	631	60	130	2.0	20
LTST-C250KFKT	Orange	605	90	130	2.0	20
LTST-C250KSKT	Yellow	589	50	130	2.0	20
LTST-C250KGKT	Yellow Green	571	35	130	2.0	20
LTST-C250TGKT	True Green	525	150	130	3.3	20
LTST-C250TBKT	Blue	470	50	130	3.3	20
LTW-C250DC5	White	(0.28, 0.27)	112	130	2.9	5

Chip LED_Top View_Reverse Mount

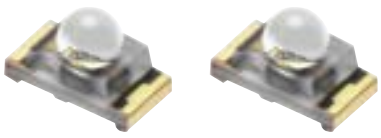


3.2 x 1.6 x 1.1 mm

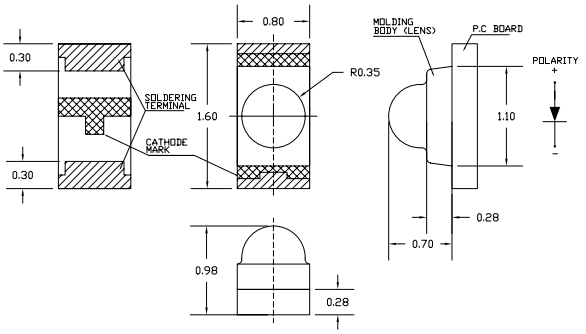


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C230KRKT	Red	631	60	130	2.0	20
LTST-C230KFKT	Orange	605	90	130	2.0	20
LTST-C230KSKT	Yellow	589	50	130	2.0	20
LTST-C230KGKT	Yellow Green	571	35	130	2.0	20
LTST-C230TGKT	True Green	525	150	130	3.3	20
LTST-C230TBKT	Blue	470	50	130	3.3	20
LTW-C230DS	White	(0.294, 0.286)	280	130	3.3	20

Chip LED _Top View _Dome Lens

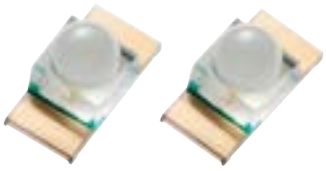


1.6 x 0.8 x 0.98 mm

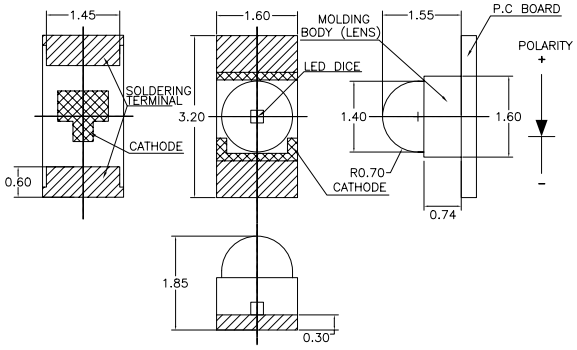


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C990KRKT	Red	631	450	75	2.0	20
LTST-C990KFKT	Orange	605	300	75	2.0	20
LTST-C990KSKT	Yellow	589	280	75	2.0	20
LTST-C990KGKT	Yellow Green	571	250	75	2.0	20
LTST-C990TGKT	True Green	525	1800	75	3.3	20
LTST-C990TBKT	Blue	470	700	75	3.3	20

Chip LED _Top View _Dome Lens



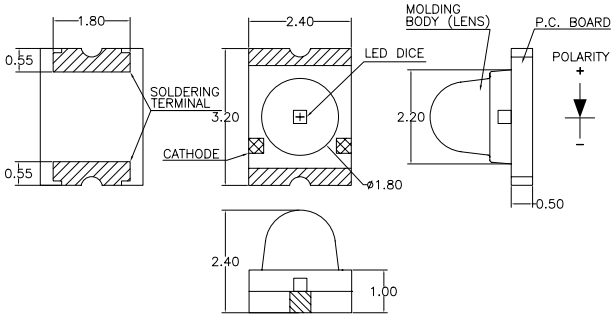
3.2 x 1.6 x 1.85 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Iv Typ. @20mA (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C950KRKT	Red	631	900	25	2.0	20
LTST-C950KFKT	Orange	605	1800	25	2.0	20
LTST-C950KSKT	Yellow	589	1800	25	2.0	20
LTST-C950KGKT	Yellow Green	571	710	25	2.0	20
LTST-C950TGKT	True Green	525	2800	25	3.3	20
LTST-C950TBKT	Blue	470	1120	25	3.3	20
LTW-C9501DS5	White	(0.294, 0.286)	1000	25	2.8	5
LTW-9501ZDS5	White	(0.294, 0.286)	1000	25	2.8	5

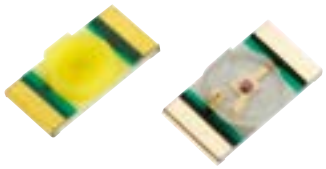
Chip LED _Top View _Dome Lens

3.2 x 2.4 x 2.4 mm

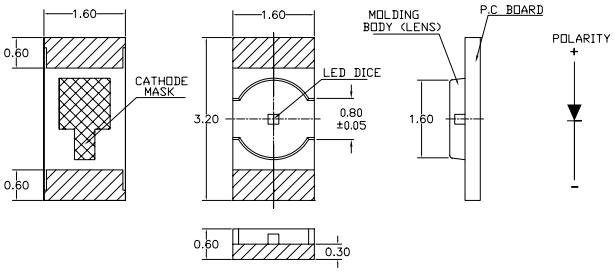


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C930KRKT	Red	631	850	25	2.0	20
LTST-C930KFKT	Orange	605	1200	25	2.0	20
LTST-C930KSKT	Yellow	589	800	25	2.0	20
LTST-C930KGKT	Yellow Green	571	600	25	2.0	20
LTST-C930TGKT	True Green	525	2000	25	3.3	20
LTST-C930TBKT	Blue	470	450	25	3.3	20
LTW-C9301DS5	White	(0.294, 0.286)	1600	25	2.8	5
LTW-9301ZDS5	White	(0.294, 0.286)	1600	25	2.8	5

Chip LED _Top View_Inner Lens

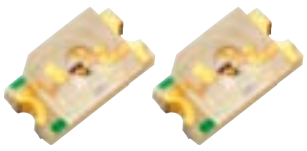


3.2 x 1.6 x 0.6 mm

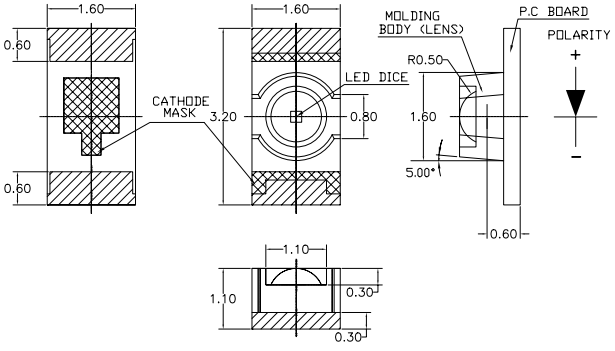


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C216KRKT	Red	631	60	130	2.0	20
LTST-C216KFKT	Orange	605	90	130	2.0	20
LTST-C216KSKT	Yellow	589	50	130	2.0	20
LTST-C216KGKT	Yellow Green	571	35	130	2.0	20
LTST-C216TGKT	True Green	525	150	130	3.3	20
LTST-C216TBKT	Blue	470	50	130	3.3	20
LTW-216TS5	White	(0.304, 0.301)	112	130	2.9	5

Chip LED _Top View_Inner Lens

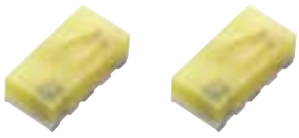


3.2 x 1.6 x 1.1 mm

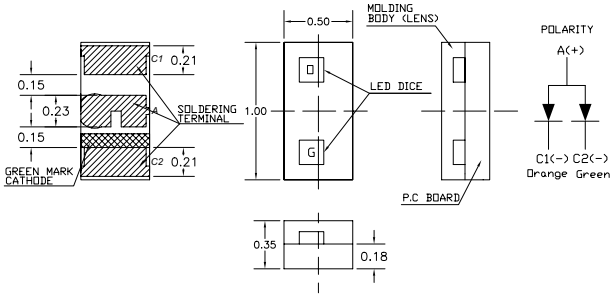


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C21KRKT	Red	631	100	70	2.0	20
LTST-C21KFKT	Orange	605	180	70	2.0	20
LTST-C21KSKT	Yellow	589	112	70	2.0	20
LTST-C21KGKT	Yellow Green	571	71	70	2.0	20
LTST-C21TGKT	True Green	525	450	70	3.3	20
LTST-C21TBKT	Blue	470	112	70	3.3	20
LTW-21TS5	White	(0.304, 0.301)	71	70	2.9	5

Chip LED_Top View_Dual Color



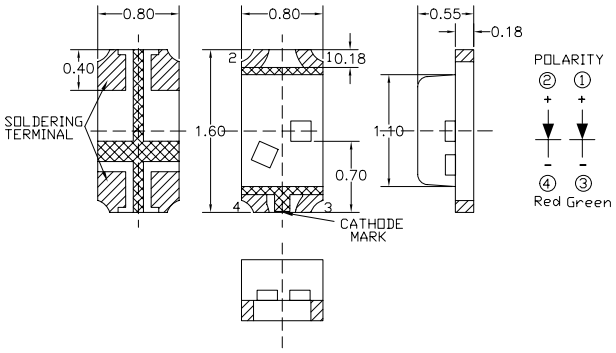
1.0 x 0.5 x 0.35 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C285TBKEWT-5A	Red	621	45	130	2.0	5
	Blue	470	28		2.9	5
LTST-C285TGKFWT-5A	Orange	605	28	130	2.0	5
	True Green	525	18		2.9	5
LTST-C285KGKFWT-5A	Orange	605	28	130	2.0	5
	Yellow Green	571	18		2.0	5
LTW-C285DSKG-5A	Yellow Green	571	18	130	2.0	5
	White	(0.30, 0.30)	71		2.9	5

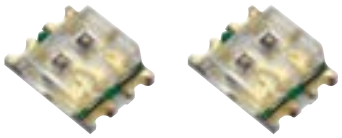
Chip LED_Top View_Dual Color

1.6 x 0.8 x 0.55 mm

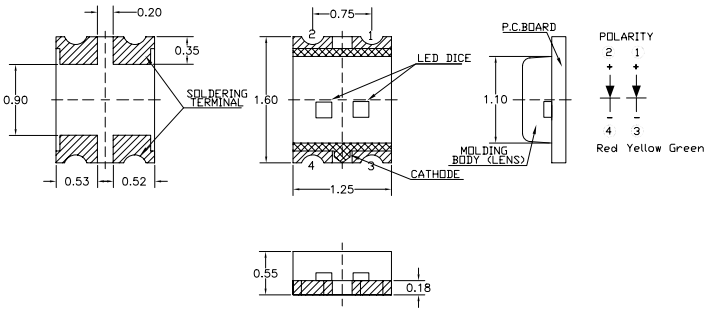


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C295TBKFKT	Orange	605	45	130	2.0	20
	Blue	470	28		3.3	20
LTST-C295KGKFKT	Orange	605	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTST-C295KGKRKT	Red	631	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTW-295DSKS-5A	Yellow	589	18	130	2.0	5
	White	(0.30, 0.30)	71		2.9	5

Chip LED_Top View_Dual Color

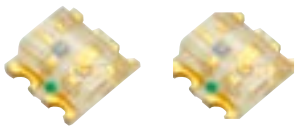


1.6 x 1.25 x 0.55 mm

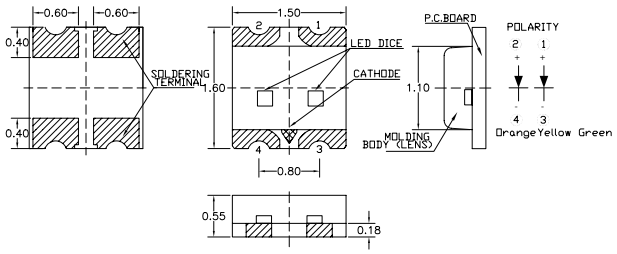


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C395TBKFKT	Orange	605	100	130	1.9	20
	Blue	470	80		3.1	20
LTST-C395KGKFKT	Orange	605	100	130	1.9	20
	Yellow Green	571	60		1.9	20
LTST-C395KGKRKT	Red	631	90	130	1.9	20
	Yellow Green	571	60		1.9	20

Chip LED_Top View_Dual Color



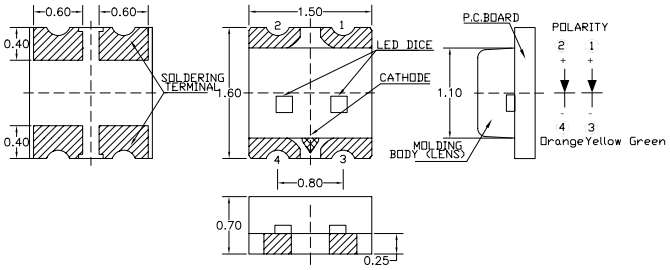
1.6 x 1.5 x 0.55 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C195TBJRKT	Red	631	45	130	2.0	20
	Blue	470	28		3.3	20
LTST-C195KGKFKT	Orange	605	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTST-C195KGJRKT	Red	631	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTW-C195DSKS-5A	Yellow	589	18	130	2.0	5
	White	(0.30, 0.30)	71		2.75	5

Chip LED_Top View_Dual Color

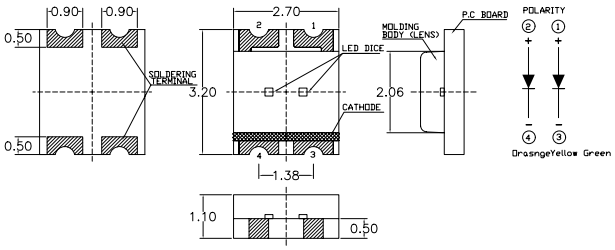
1.6 x 1.5 x 0.7 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C197TGKEKT	Red	621	45	130	2.0	20
	True Green	525	28		3.3	20
LTST-C197KGKEKT	Red	621	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTST-C197KGKSKT	Yellow	589	55	130	2.0	20
	Yellow Green	571	55		2.0	20

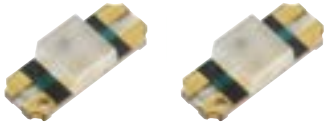
Chip LED_Top View_Dual Color

3.2 x 2.7 x 1.1 mm

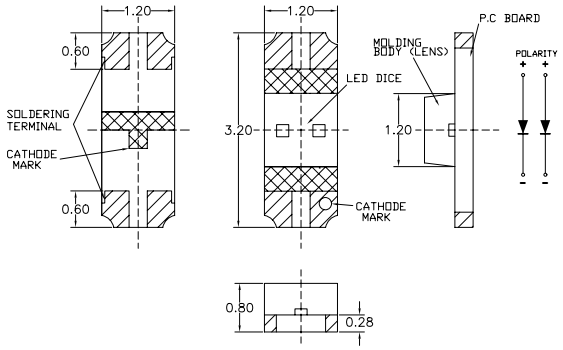


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C155TBJRKT	Red	631	45	130	2.0	20
	Blue	470	28		3.3	20
LTST-C155KGKFKT	Orange	605	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTST-C155KGJRKT	Red	631	28	130	2.0	20
	Yellow Green	571	28		2.0	20

Chip LED_Top View_Reverse Mount Dual Color

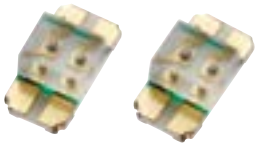


3.2 x 1.2 x 0.8 mm

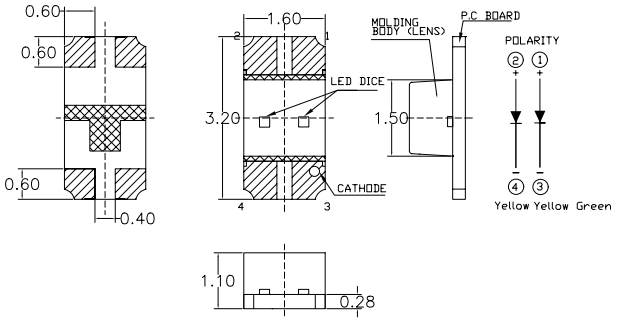


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C255TBKFWT-5A	Orange	605	28	130	1.9	5
	Blue	470	28		2.8	5
LTW-C255DCKF-5A	Orange	605	28	130	2.0	5
	White	(0.28, 0.27)	71		2.85	5

Chip LED_Top View_Reverse Mount Dual Color



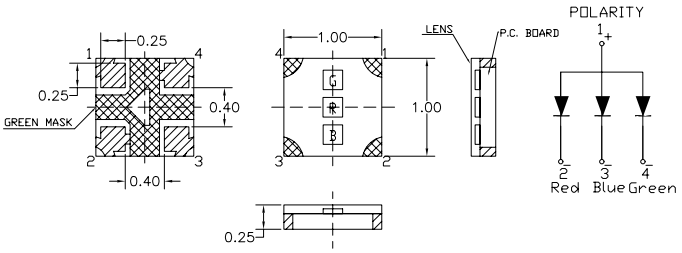
3.2 x 1.6 x 1.1 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C235TBJRKT	Red	631	45	130	2.0	20
	Blue	470	28		3.3	20
LTST-C235KGKSKT	Yellow	589	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTST-C235KGKRKT	Red	631	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTW-C235DSKF-5A	Orange	605	28	130	2.0	5
	White	(0.30, 0.30)	71		2.9	5

Chip LED_Top View_Multi Color

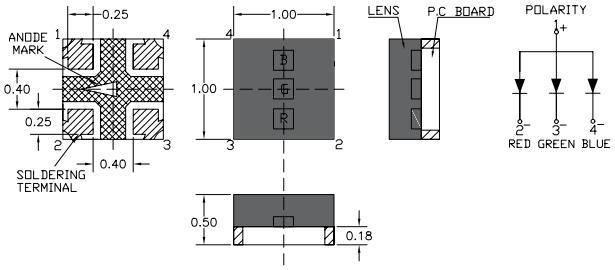
1.0 x 1.0 x 0.25 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C28NBEGK-2A	Red	624	36	120	1.7	2
	True Green	530	195		2.6	2
	Blue	470	31		2.6	2

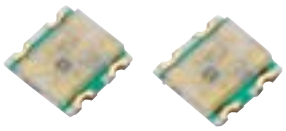
Chip LED_Top View_Multi Color

1.0 x 1.0 x 0.5 mm

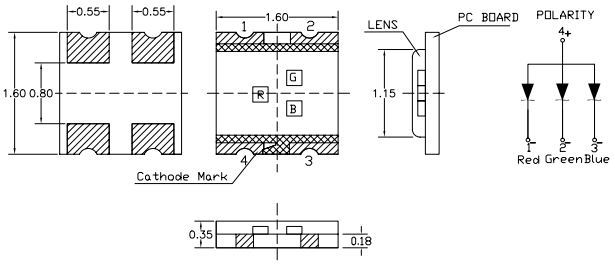


Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-B28JEGBB-5A	Red	624	7.1	130	1.9	5
	True Green	530	18		2.8	5
	Blue	470	7.1		2.8	5

Chip LED_Top View_Multi Color



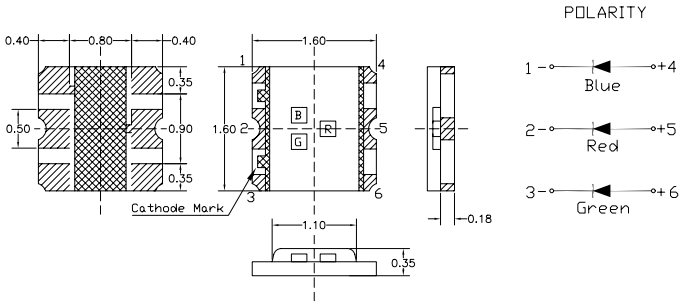
1.6 x 1.6 x 0.35 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19HE1WT	Red	624	71	130	2.0	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20
LTST-C19HRGYW	Red	624	112	130	2.1	20
	Yellow	594	175		2.1	20
	True Green	525	260		3.2	20

Chip LED_Top View_Multi Color

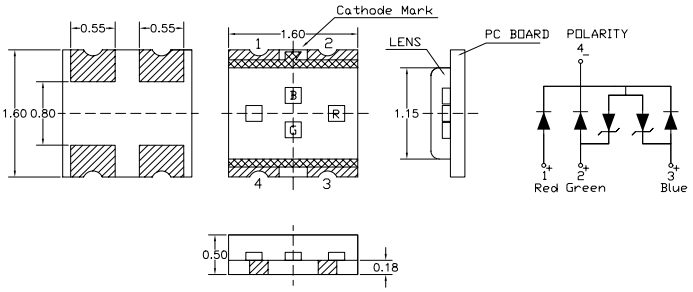
1.6 x 1.6 x 0.35 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19KBEGK-5A	Red	624	28	130	2	5
	True Green	528	112		2.8	5
	Blue	470	28		2.8	5

Chip LED_Top View_Multi Color

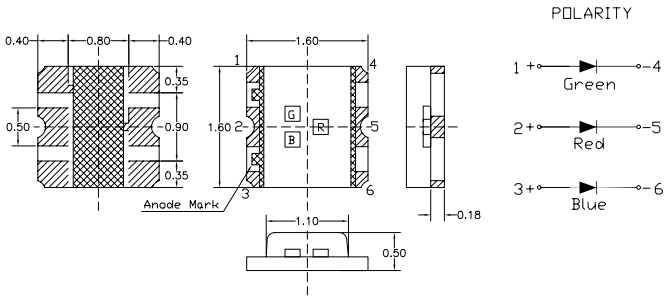
1.6 x 1.6 x 0.5 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19JZEGB1W-5A	Red	624	28	130	1.9	5
	True Green	530	78		2.8	5
	Blue	470	28		2.8	5

Chip LED_Top View_Multi Color

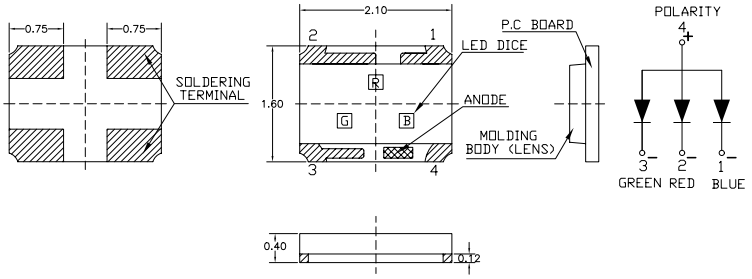
1.6 x 1.6 x 0.5 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19MGEBK-5A	Red	624	112	130	2	5
	True Green	530	280		2.6	5
	Blue	470	70		2.6	5

Chip LED_Top View_Multi Color

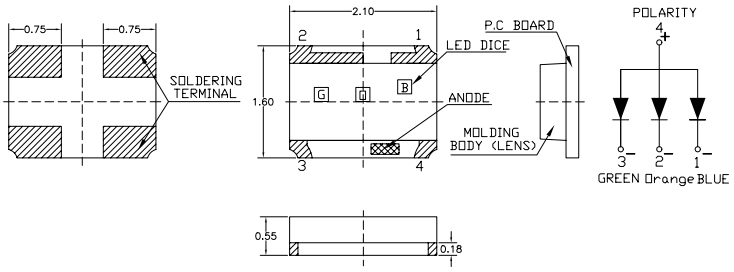
1.6 x 2.1 x 0.4 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19GD2WT	Red	626	100	130	2	20
	True Green	525	180		3.3	20
	Blue	470	40		3.3	20

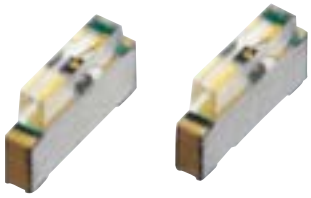
Chip LED_Top View_Multi Color

1.6 x 2.1 x 0.55 mm

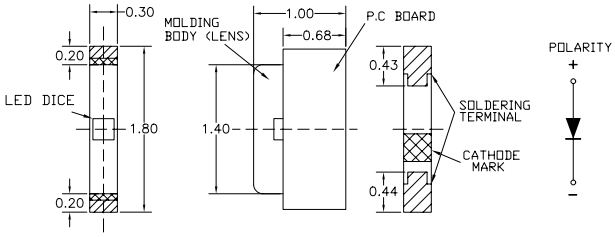


Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-C19FD1WT	Orange	605	71	130	2	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20

Chip LED_Side View

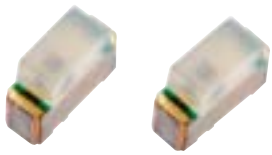


1.8 x 1.0 x 0.3 mm

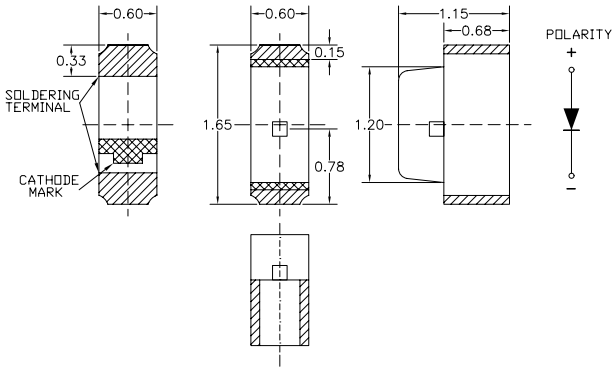


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S482KRKT-5A	Red	631	30	130	1.9	5
LTST-S482KFKT-5A	Orange	605	20	130	1.9	5
LTST-S482KSKT-5A	Yellow	587	20	130	1.9	5
LTST-S482KGKT-5A	Yellow Green	571	15	130	1.9	5
LTST-S482TGKT-5A	True Green	525	70	130	2.9	5
LTST-S482TBKT-5A	Blue	470	20	130	2.9	5
LTW-S482DS5	White	(0.29, 0.29)	180	130	2.9	5

Chip LED_Side View



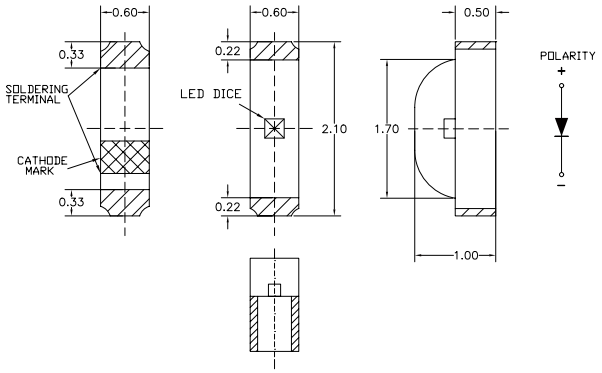
1.6 x 1.15 x 0.6 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S270KRKT	Red	631	60	130	2.0	20
LTST-S270KFKT	Orange	605	90	130	2.0	20
LTST-S270KSKT	Yellow	589	50	130	2.0	20
LTST-S270KGKT	Yellow Green	571	35	130	2.0	20
LTST-S270TGKT	True Green	525	150	130	3.3	20
LTST-S270TBKT	Blue	470	50	130	3.3	20
LTW-270TLA	White	(0.31, 0.32)	113	130	3.1	10

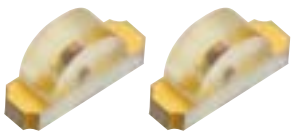
Chip LED_Side View

2.1 x 1.0 x 0.6 mm

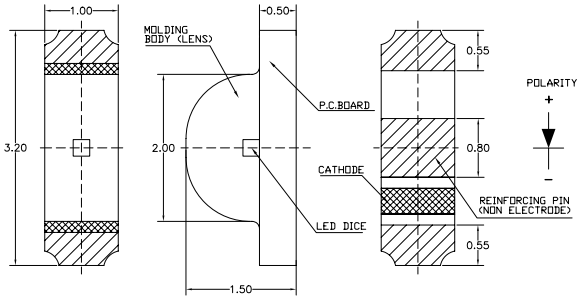


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S220KRKT	Red	631	60	130	2.0	20
LTST-S220KFKT	Orange	605	90	130	2.0	20
LTST-S220KSKT	Yellow	589	50	130	2.0	20
LTST-S220KGKT	Yellow Green	571	35	130	2.0	20
LTST-S220TGKT	True Green	525	150	130	3.3	20
LTST-S220TBKT	Blue	470	50	130	3.3	20
LTW-S221DS	White	(0.3, 0.3)	280	130	3.3	20

Chip LED_Side View

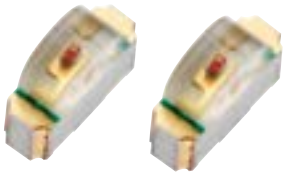


3.2 x 1.5 x 1.0 mm

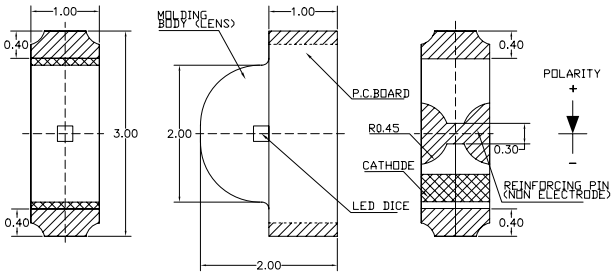


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S110KRKT	Red	631	54	130	2.0	20
LTST-S110KFKT	Orange	605	90	130	2.0	20
LTST-S110KSKT	Yellow	589	80	130	2.0	20
LTST-S110KGKT	Yellow Green	571	35	130	2.0	20
LTST-S110TGKT	True Green	525	150	130	3.3	20
LTST-S110TBKT	Blue	470	70	130	3.3	20
LTW-110TS5	White	(0.304, 0.301)	70	130	2.9	5

Chip LED_Side View

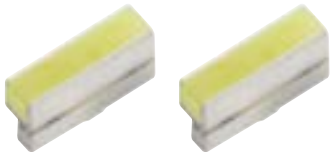


3.0 x 2.0 x 1.0 mm

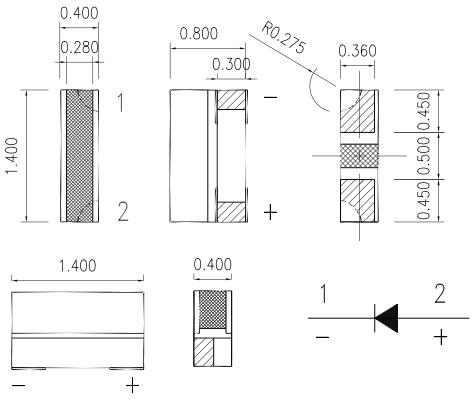


Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S320KRKT	Red	631	54	130	2.0	20
LTST-S320KFKT	Orange	605	90	130	2.0	20
LTST-S320KSKT	Yellow	589	50	130	2.0	20
LTST-S320KGKT	Yellow Green	571	80	130	2.0	20
LTST-S320TGKT	True Green	525	150	130	3.3	20
LTST-S320TBKT	Blue	470	70	130	3.3	20
LTW-S321ZDS5	White	(0.30, 0.29)	90	130	2.9	5

Chip LED_Side View with Reflector



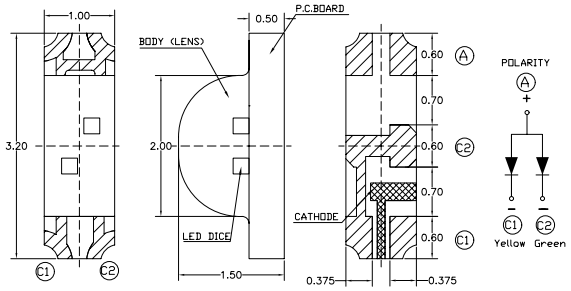
1.4 x 0.8 x 0.4 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW-S850DC5	White	(0.2862, 0.2742)	1.2	130	2.8	5

Chip LED_Side View_Dual Color

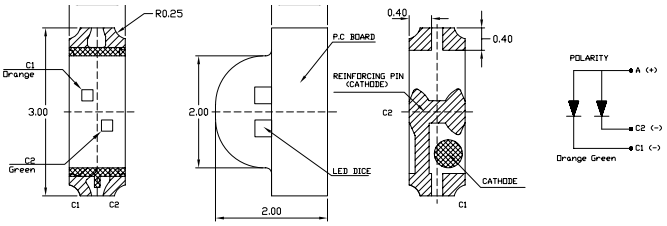
3.2 x 1.5 x 1.0 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S115TGKFKT	Orange	605	112	130	3.3	20
	True Green	525	112		2.0	20
LTST-S115KGKFKT	Orange	605	90	130	2.0	20
	Yellow Green	571	35		2.0	20
LTST-S115KGJRKT	Red	631	45	130	2.0	20
	Yellow Green	571	35		2.0	20
LTW-S115KFDS-5A	Orange	605	40	130	2.9	5
	White	(0.29, 0.282)	70		2.2	5

Chip LED_Side View_Dual Color

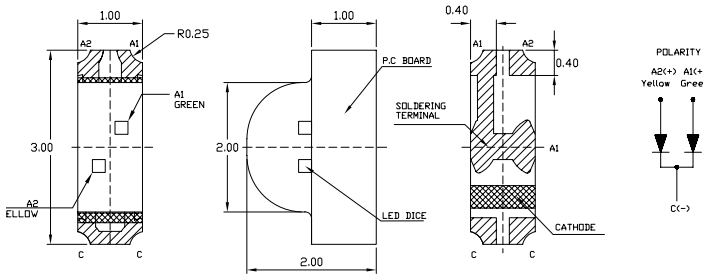
3.0 x 2.0 x 1.0 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S326TBKSKT	Yellow	589	90	130	2.0	20
	Blue	470	35		3.3	20
LTST-S326KGKFKT	Orange	605	90	130	2.0	20
	Yellow Green	571	35		2.0	20
LTST-S326KGJRKT	Red	631	45	130	2.0	20
	Yellow Green	571	35		2.0	20
LTW-326DSKF-5A	Orange	605	40	130	2.9	5
	White	(0.3, 0.3)	70		2.2	5

Chip LED_Side View_Dual Color

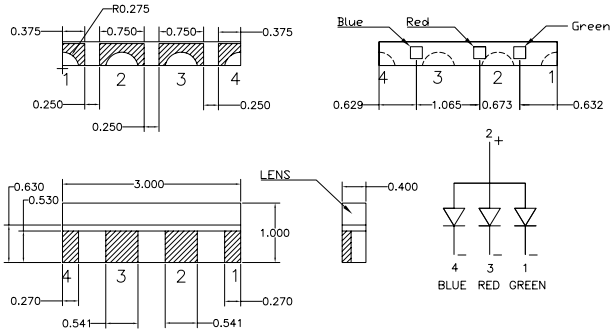
3.0 x 2.0 x 1.0 mm



Part No.	Color	λ_d(nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S327TBKFKT	Orange	605	90	130	2.0	20
	Blue	470	45		3.3	20
LTST-S327KGJRKT	Red	631	45	130	2.0	20
	Yellow Green	571	35		2.0	20
LTST-S327KGJSKT	Yellow	589	75	130	2.0	20
	Yellow Green	571	35		2.0	20
LTW-327DSKF-5A	Orange	605	40	130	2.2	5
	White	(0.3, 0.3)	70		2.6	5

Chip LED_Side View_Multi Color

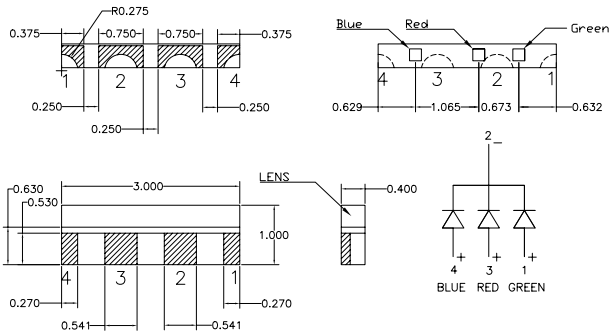
3.0 x 1.0 x 0.4 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S33FBEGW-5A	Red	624	180	130	1.9	5
	True Green	525	112		2.9	5
	Blue	470	71		2.9	5

Chip LED_Side View_Multi Color

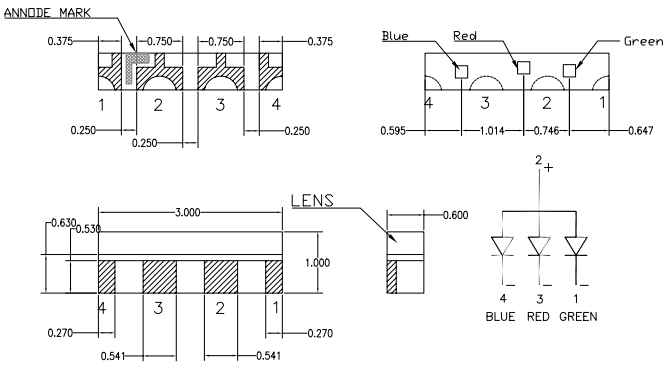
3.0 x 1.0 x 0.4 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S43FBEGW	Red	624	28	130	2	5
	True Green	525	112		2.85	5
	Blue	470	28		2.85	5

Chip LED_Side View_Multi Color

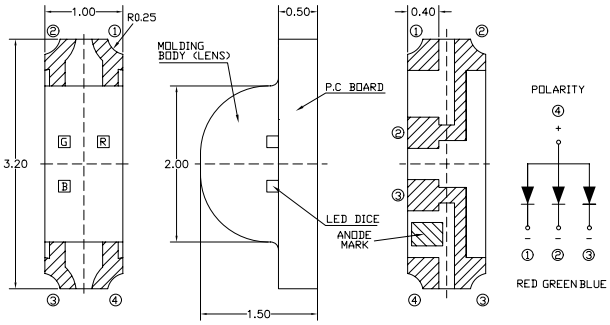
3.0 x 1.0 x 0.6 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S33GBEGK	Red	624	575	130	2.2	20
	True Green	525	1500		2.9	20
	Blue	470	335		2.9	20

Chip LED_Side View_Multi Color

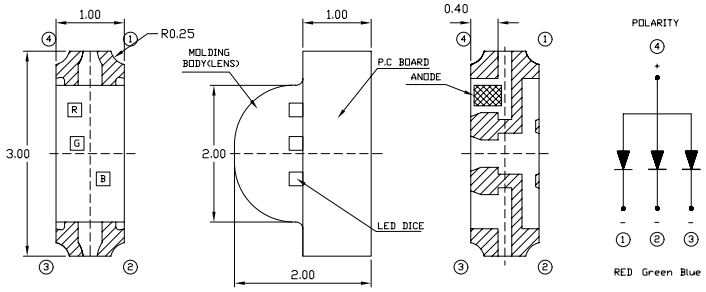
3.2 x 1.5 x 1.0 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S310F3WT	Red	624	71	130	2	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20

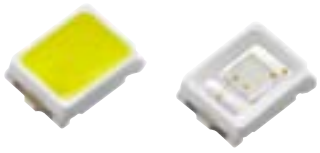
Chip LED_Side View_Multi Color

3.0 x 2.0 x 1.0 mm

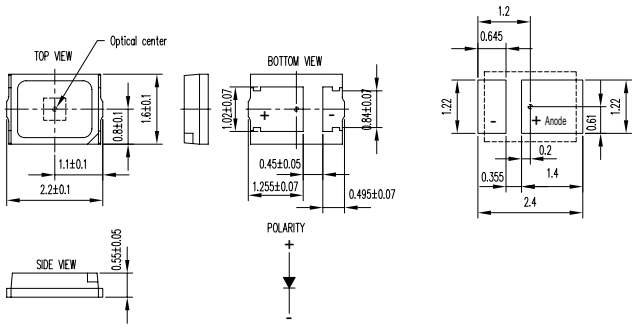


Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-S32F1KT	Red	624	112	130	2	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20

PLCC_Top View



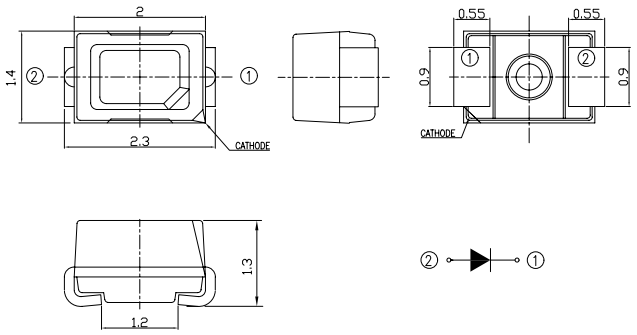
2.0 x 1.6 x 0.55 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-C0610VEWT	Red	624	1120	120	2.00	20	30
LTST-C0610VSWT	Yellow	589	1120	120	2.00	20	30
LTST-C0610UGWT	True Green	525	1800	120	3.20	20	30
LTST-C0610UBWT	Blue	470	355	120	3.20	20	30
LTST-C0610ZWET	White	(0.31, 0.31)	2240	120	3.20	20	30

PLCC_Top View

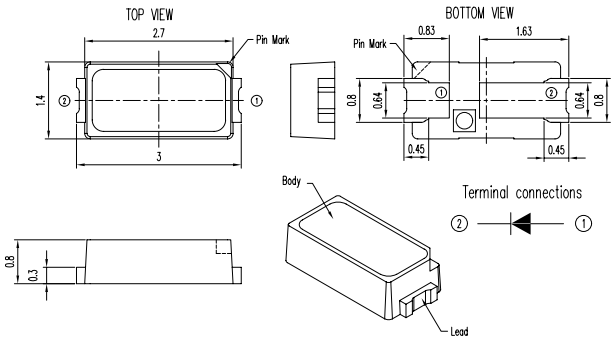
2.3 x 1.4 x 1.3 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-M230VEWT	Red	624	900	120	2.0	20	30
LTST-M230VSWT	Yellow	589	900	120	2.0	20	30
LTST-M230UGWT	True Green	525	1800	120	3.2	20	30
LTST-M230UBWT	Blue	470	355	120	3.2	20	30
LTST-M230ZWET	White	(0.31, 0.31)	2240	120	3.2	20	30

PLCC_Top View

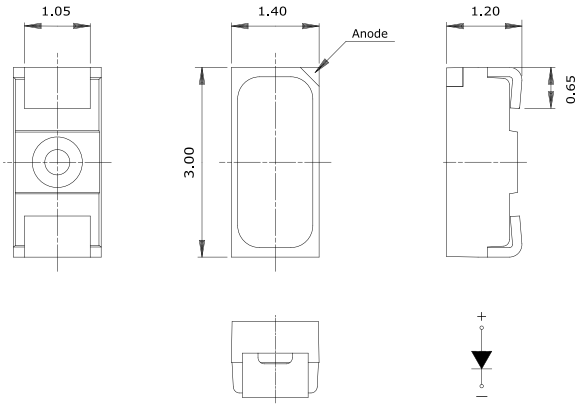
2.7 x 1.4 x 0.8 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTW-K140RS625	Red	625	3.1	120	2.1	20	30
LTW-K140OS607	Orange	607	2.8	120	2.1	20	30
LTW-K140YS587	Yellow	587	2.5	120	2.1	20	30
LTW-K140GS525	True Green	525	6.8	120	3.2	20	30
LTW-K140BS470	Blue	470	1.4	120	3.2	20	30
LTW-K140SCIB	Ice Blue	(0.24, 0.29)	8	120	2.9	20	30
LTW-K140SCTF	Tiffany Blue	(0.22, 0.33)	7.7	120	2.9	20	30
LTW-K140SCVL	Violet	(0.32, 0.19)	5	120	2.9	20	30
LTW-K140SCSK	Sakura Pink	(0.45, 0.26)	6	120	2.9	20	30
LTW-K140SCGD	Gold	(0.40, 0.46)	9.5	120	2.9	20	30

PLCC_Top View

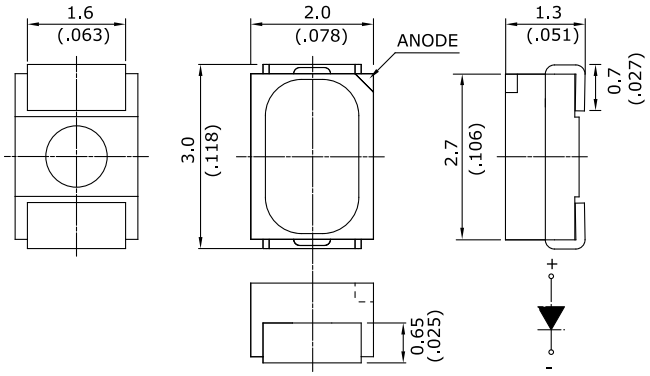
3.0 x 1.4 x 1.2 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-M140KRKT	Red	631	180	-	120	2.0	20	30
LTST-M140QEKT	Red Orange	624	355	-	120	2.0	20	30
LTST-M140KFKT	Orange	605	355	-	120	2.0	20	30
LTST-M140KSKT	Yellow	589	280	-	120	2.0	20	30
LTST-M140QSKT	Yellow	589	355	-	120	2.0	20	30
LTST-M140KGKT	Yellow Green	571	112	-	120	2.0	20	30
LTST-M140TGKT	True Green	525	560	-	120	3.2	20	30
LTST-M140TBKT	Blue	470	280	-	120	3.2	20	30
LTW-M140ZVS	White	(0.296, 0.285)	-	6.5	120	3.2	20	30

PLCC_Top View

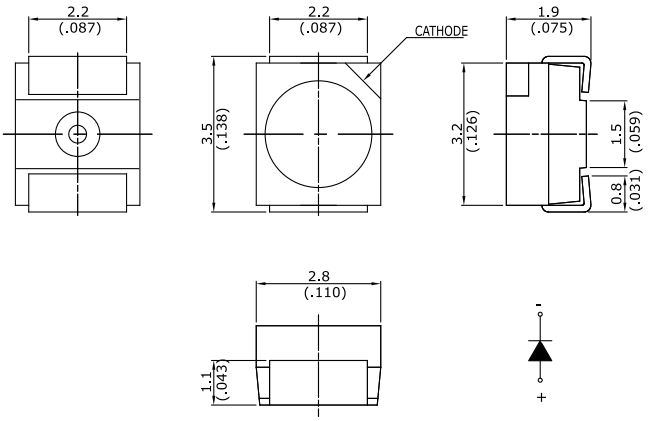
3.0 x 2.0 x 1.3 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-M670KRKT	Red	631	180	120	2.0	20	30
LTST-M670KFKT	Orange	605	280	120	2.0	20	30
LTST-M670KSKT	Yellow	589	280	120	2.0	20	30
LTST-M670KGKT	Yellow Green	571	112	120	2.0	20	30
LTST-M670TGKT	True Green	525	560	120	3.2	20	30
LTST-M670TBKT	Blue	470	280	120	3.2	20	30
LTW-M670ZVS-M5	White	(0.29, 0.27)	2400	120	3.2	20	30

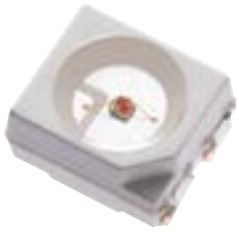
PLCC_Top View

3.5 x 2.8 x 1.9 mm

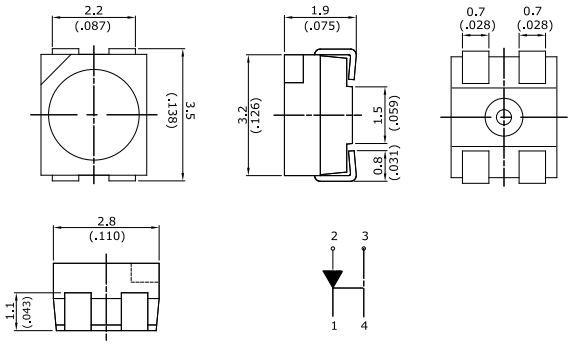


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-T680KRWT	Red	631	140	-	120	2.0	20	30
LTW-670RS625	Red	625	-	3.1	120	2.1	20	30
LTST-T680VEWT	Red	624	1120	-	120	2.0	20	30
LTST-T680QEWT	Red	624	710	-	120	2.0	20	30
LTW-670OS607	Orange	607	-	2.8	120	2.1	20	30
LTST-T680KFWT	Orange	605	224	-	120	2.0	20	30
LTST-T680KSWT	Yellow	589	224	-	120	2.0	20	30
LTST-T680VSWT	Yellow	589	1120	-	120	2.0	20	30
LTST-T680QSWT	Yellow	589	710	-	120	2.0	20	30
LTW-670YS587	Yellow	587	-	2.5	120	2.1	20	30
LTST-T680KGWT	Yellow Green	571	90	-	120	2.0	20	30
LTST-T680TGWT	True Green	525	710	-	120	3.2	20	30
LTST-T680UGWT	True Green	525	1120	-	120	3.2	20	30
LTW-670GS525	True Green	525	-	6.1	120	3.2	20	30
LTST-T680UBWT	Blue	470	355	-	120	3.2	20	30
LTW-670BS470	Blue	470	-	1.4	120	3.2	20	30
LTW-670DS-EL	White	(0.31, 0.30)	2500	-	120	3.2	20	30
LTST-T680UWET	White	(0.31, 0.31)	2240	-	120	3.2	20	30

PLCC_Top View



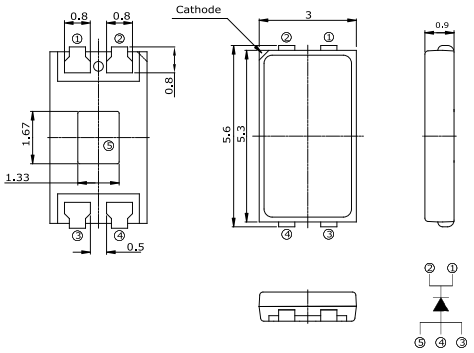
3.5 x 2.8 x 1.9 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-E680VEWT	Red	631	1500	120	2.2	20	50
LTST-E680VSWT	Yellow	589	1800	120	2.2	20	50
LTST-E680UGWT	True Green	525	1800	120	3.3	20	50
LTST-E680UBWT	Blue	470	710	120	3.3	20	50

PLCC_Top View

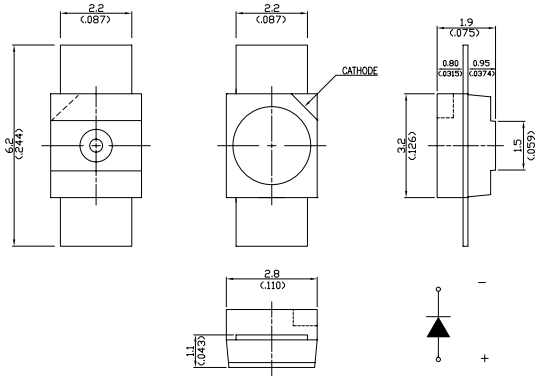
5.6 x 3.0 x 0.9 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-5630VDWT	Red	639	6.72	130	2.2	20	150
LTST-5630VEWT	Red	624	13.5	130	2.2	20	150
LTST-5630VSWT	Yellow	589	13.5	130	2.2	20	150
LTST-5630UGWT	True Green	530	27	130	3.4	20	150
LTST-5630UBWT	Blue	460	4.2	130	3.4	20	150
LTST-5630ULWT	Blue	450	4.2	130	3.4	20	150

PLCC_Top View

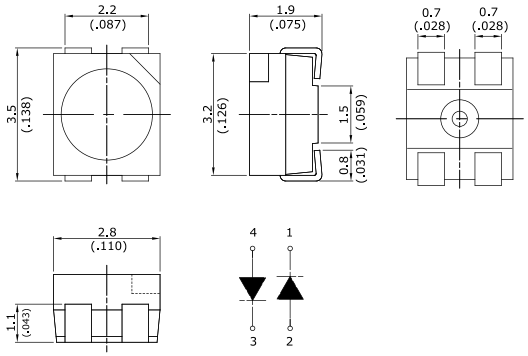
6.2 x 2.8 x 1.9 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-F680VEWT	Red	624	900	120	2.0	20	30
LTST-F680VSWT	Yellow	589	900	120	2.0	20	30
LTST-F680UGWT	True Green	525	1800	120	3.2	20	30
LTST-F680UBWT	Blue	470	355	120	3.2	20	30
LTST-F680UBET	White	(0.31, 0.31)	2240	120	3.2	20	30

PLCC_Top View_Dual Color

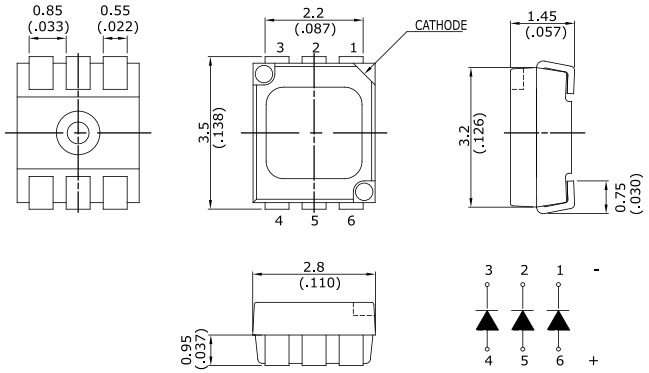
3.5 x 2.8 x 1.9 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-E682KRKGWT	Red	631	180	120	2.0	20	30
	Yellow Green	571	140	120	2.0	20	30
LTST-E682KGKFWT	Orange	605	224	120	2.0	20	30
	Yellow Green	571	112	120	2.0	20	30
LTST-E682KGKSWT	Yellow	589	355	120	2.0	20	30
	Yellow Green	571	140	120	2.0	20	30
LTST-E682KETBWT	Red	624	280	120	2.0	20	30
	Blue	470	280	120	3.2	20	30
LTST-E682TGKRWT	True Green	525	710	120	3.2	20	30
	Red	631	180	120	2.0	20	30

PLCC_Top View_Multi Color

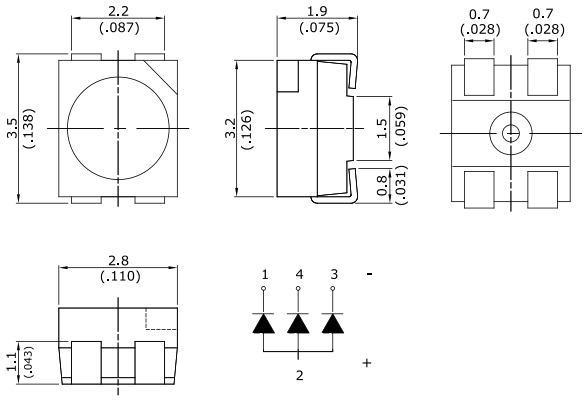
3.5 x 2.8 x 1.3 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-G683GEBW	Red	624	710	120	2.0	20	30
	True Green	525	1400	120	3.2	20	30
	Blue	470	280	120	3.2	20	30
LTST-G683RGBW	Red	624	140	120	2.0	20	30
	True Green	525	450	120	3.2	20	30
	Blue	470	224	120	3.2	20	30
LTST-G683ESBW	Red	624	710	120	2.0	20	30
	Yellow	590	710	120	2.0	20	30
	Blue	470	280	120	3.2	20	30

PLCC_Top View_Multi Color

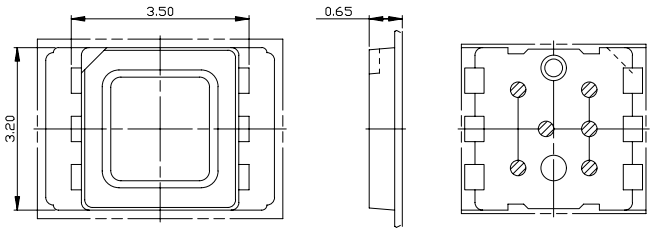
3.5 x 2.8 x 1.9 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-E683RGBW	Red	631	140	120	2.0	20	30
	True Green	525	710	120	3.2	20	30
	Blue	470	224	120	3.2	20	30
LTST-E683FGBW	Orange	605	280	120	2.0	20	30
	True Green	525	710	120	3.2	20	30
	Blue	470	224	120	3.2	20	30
LTST-E683EGSW	Red	631	224	120	2.0	20	30
	True Green	525	450	120	3.2	20	30
	Yellow	590	224	120	2.0	20	30
LTST-E683EGBW	Red	631	71	120	2.0	20	30
	True Green	525	450	120	3.2	20	30
	Blue	470	140	120	3.2	20	30

PLCC_Top View_Multi Color

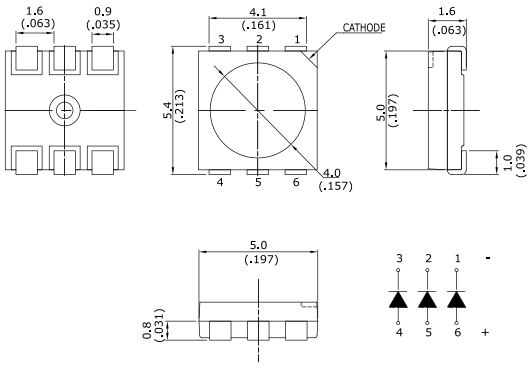
3.5 x 3.2 x 0.65 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Flux Φv (lm)	View Angle 2θ 1/2	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTW-Q35ZRGB	Red	625	2.55	120	2.1	20	30
	True Green	525	7.35	120	2.9	20	30
	Blue	470	0.95	120	3.0	20	30

PLCC_Top View_Multi Color

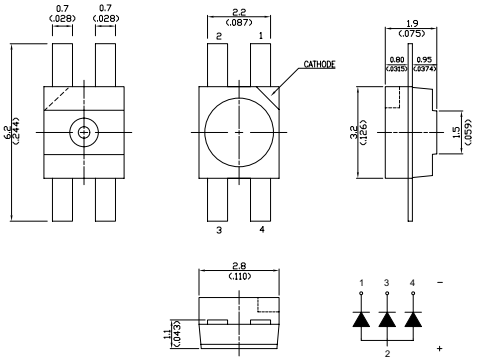
5.4 x 5.0 x 1.6 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle 2θ 1/2	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-G563DDDW	Red	640	900	120	2.0	20	30
LTST-G563EEEW	Red	624	1800	120	2.0	20	30
LTST-G563SSSW	Yellow	589	2240	120	2.0	20	30
LTST-G563ZGGGW	True Green	525	4500	120	3.2	20	30
LTST-G563ZBBBW	Blue	470	900	120	3.2	20	30
LTST-G563ZEGBW	Red	624	710	120	2.0	20	30
	True Green	525	1800	120	3.2	20	30
	Blue	470	450	120	3.2	20	30
LTST-G563BBBE	White	(0.31, 0.31)	7500	120	3.2	20	30

PLCC_Top View_Multi Color

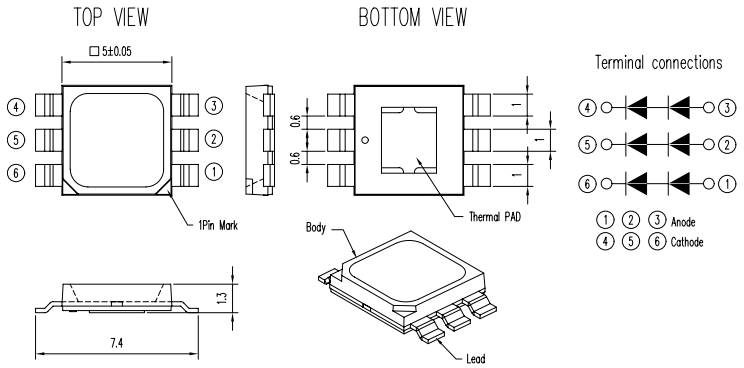
6.2 x 2.8 x 1.9 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-A683GEBW	Red	624	710	120	2.0	20	30
	True Green	525	1400	120	3.2	20	30
	Blue	470	355	120	3.2	20	30
LTST-A683BEGW	Red	624	710	120	2.0	20	30
	True Green	525	1400	120	3.2	20	30
	Blue	470	355	120	3.2	20	30

PLCC_Top View_Multi Color

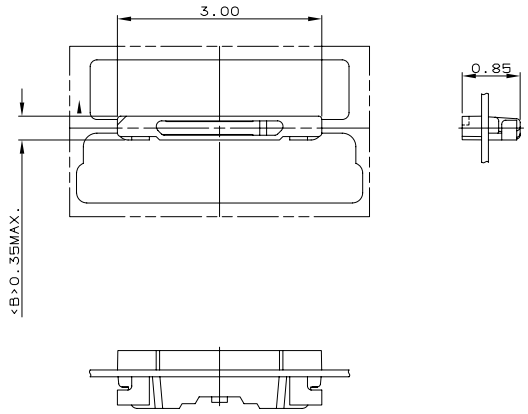
7.4 x 5.0 x 1.3 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTPL-P033RGB	Red	625	6800	21	120	2.2	150	300
	True Green	525	10000	30	120	3.2	150	300
	Blue	460	3000	9	120	3.1	150	300

PLCC_Side View

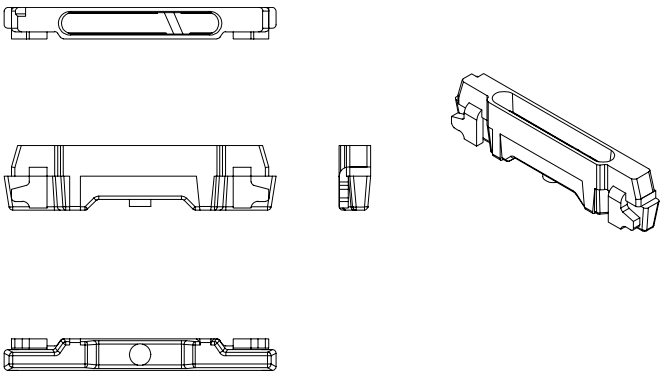
3.0 x 0.85 x 0.35 mm



Part No.	Color	CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTW-303DCG-KB	White	(0.285, 0.265)	7.2	120	3.0	20	30

PLCC_Side View

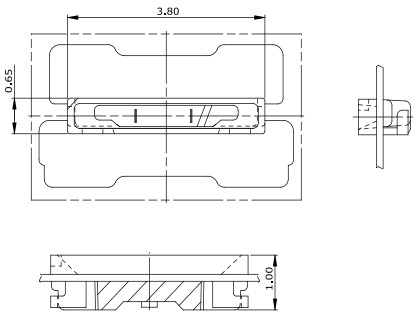
3.8 x 1.0 x 0.4 mm
3.8 x 0.9 x 0.43 mm (LTW-010ZDCG only)



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-010KRKT	Red	631	180	120	2	20	30
LTW-010SCR	Red	620	720	120	2.2	20	30
LTST-010KFKT	Orange	605	180	120	2	20	30
LTST-010KSKT	Yellow	589	280	120	2	20	30
LTST-010KGKT	Yellow Green	571	112	120	2	20	30
LTW-010SCG	True Green	525	2400	120	3.0	20	30
LTST-010TGKT	True Green	525	450	120	3.2	20	30
LTST-010TBKT	Blue	470	140	120	3.2	20	30
LTW-010SCB	Blue	465	500	120	3.0	20	30
LTW-010DCG	White	(0.300, 0.283)	2100	120	3.1	20	30
LTW-010DCG-TR	White	(0.293, 0.283)	2500	120	3.0	20	30
LTW-010SCSK	Sakura Pink	(0.45, 0.26)	1700	120	3.0	20	30
LTW-010SCVL	Violet	(0.32, 0.19)	1700	120	3.0	20	30

PLCC_Side View

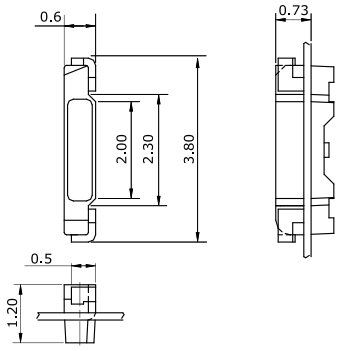
3.8 x 1.0 x 0.6 mm



Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle 2θ 1/2	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTW-206KRKT	Red	620	2.25	120	2.2	20	30
LTW-206VFKT-PX	Orange	605	2.38	120	2.2	20	30
LTW-206DCG-TMS	White	(0.285, 0.267)	8	120	3.0	20	30
LTW-206DCG-TM	White	(0.285, 0.267)	8.5	120	3.1	20	30

PLCC_Side View

3.8 x 1.2 x 0.6 mm

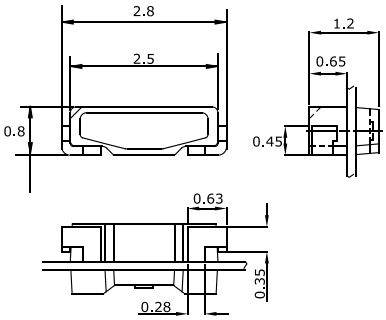


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle 2θ 1/2	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-020KRKT	Red	631	180	120	2	20	30
LTST-020KFKT	Orange	605	180	120	2	20	30
LTST-020KSKT	Yellow	589	280	120	2	20	30
LTST-020KGKT	Yellow Green	571	112	120	2	20	30
LTST-020TGKT	True Green	525	450	120	3.2	20	30
LTST-020TBKT	Blue	470	140	120	3.2	20	30
LTW-020ZDCG	White	(0.297, 0.278)	1300	120	3.1	20	30
LTW-006DCG-E2	White	(0.277, 0.257)	2100	120	3.1	20	30

PLCC_Side View

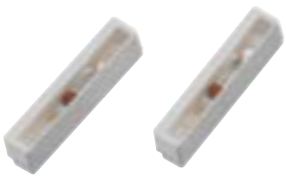
2.8 x 1.2 x 0.8 mm

2.85 x 1.2 x 0.8 mm (LTW-108DCG only)

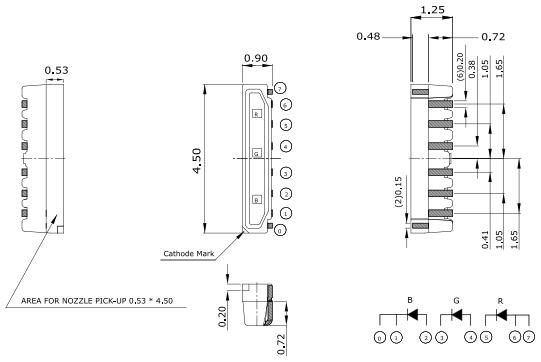


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-108KRKT	Red	631	180	120	2	20	30
LTST-108KFKT	Orange	605	180	120	2	20	30
LTST-108KSKT	Yellow	589	280	120	2	20	30
LTST-108KGKT	Yellow Green	571	140	120	2	20	30
LTST-108TGKT	True Green	525	710	120	3.2	20	30
LTST-108TBKT	Blue	470	180	120	3.2	20	30
LTW-008ZDCG	White	(0.295, 0.273)	1200	120	3.1	20	30
LTW-108SEG-W	White	(0.295, 0.280)	2200	120	3.1	20	30

PLCC_Side View_Dual Color

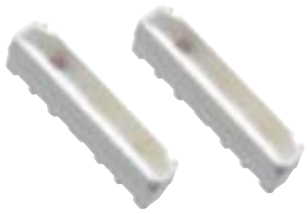


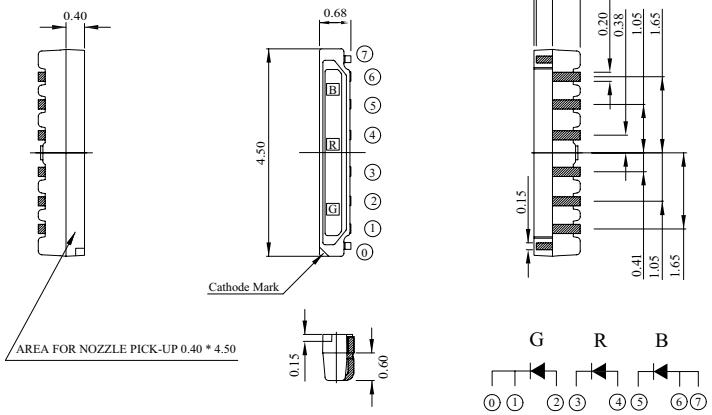
4.5 x 1.25 x 0.8 mm



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-008TGKEWT	Red	624	450	120	2	20	30
	True Green	525	710		3.2	20	30

PLCC_Side View_Multi Color

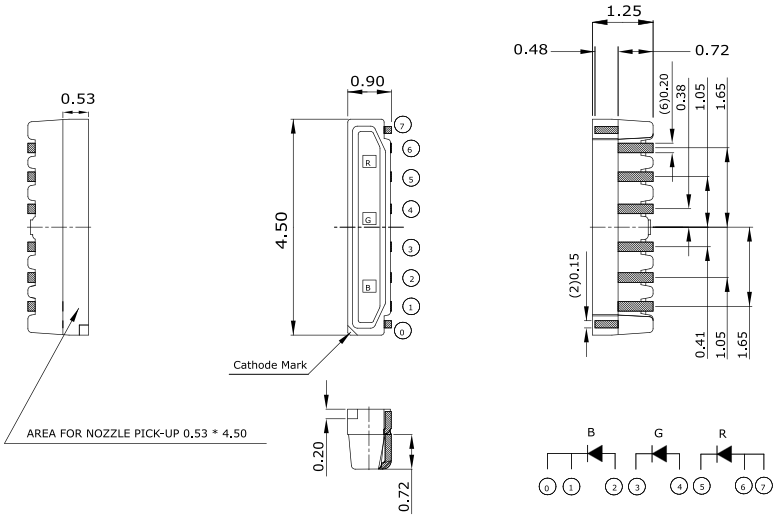




Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-006BGEW	Red	624	450	120	2	20	30
	True Green	525	710		3.2	20	30
	Blue	470	180		3.2	20	30
LTST-006GEBW	True Green	525	1400	120	3.2	20	30
	Red	624	710		2	20	30
	Blue	470	350		3.2	20	30

PLCC_Side View_Multi Color

4.5 x 1.25 x 0.8 mm

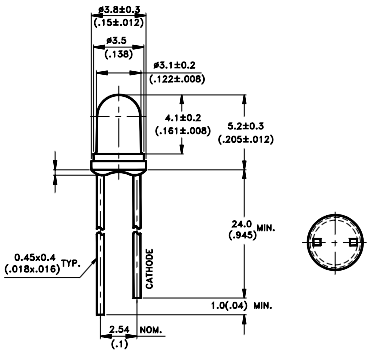


Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	Typ. Luminous Flux Φv (lm)	View Angle 2θ $_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-008BGEW	Red	624	450	-	120	2	20	30
	True Green	525	710	-		3.2	20	30
	Blue	470	180	-		3.2	20	30
LTST-008GEBW	True Green	525	1400	-	120	3.2	20	30
	Red	624	710	-		2	20	30
	Blue	470	350	-		3.2	20	30
LTST-008EGSW	Red	624	710	-	120	2	20	30
	True Green	525	1120	-		3.2	20	30
	Yellow	589	710	-		2	20	30
LTW-008RGB2-PH1	Blue	465	-	9	120	2.1	25	30
	True Green	525	-			3.2	30	30
	Red	620	-			3.1	15	30

Through Hole Lamp

3mm

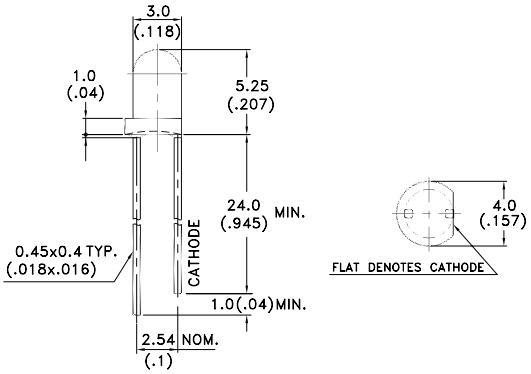
3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL1CHKEKNN	Red	Water Clear	624	90	280	45	2.1	20
LTL1CHKFKNN	Amber	Water Clear	605	140	450	45	2.1	20
LTL1CHKSKNN	Yellow	Water Clear	587	140	450	45	2.1	20
LTL1CHKGKNN	Yellow Green	Water Clear	572	56	180	45	2.1	20
LTL1CHTGK6	True Green	Water Clear	525	280	900	30	3.2	20
LTL1CHTBK5	Blue	Water Clear	470	140	450	30	3.2	20
LTW-1CHDS4	White	Water Clear	(0.29, 0.28)	1150	5500	45	3.2	20
LTW-1GHCV4	White	Water Clear	(0.29, 0.28)	2500	7000	45	3.2	20
LTW-87HD4BSZ	White	Water Clear	(0.25, 0.21)	85	400	130	3.2	20

3mm

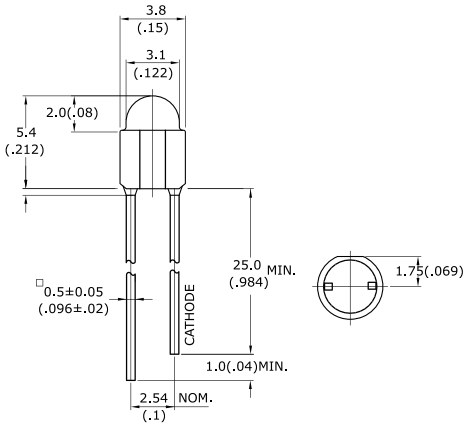
3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL1NHEG6D	Red	Red Diffused	625	23	110	90	2.1	10
LTL1NHSJ4D	Yellow	Yellow Diffused	590	240	1150	25	2.1	20
LTL1NHGB4D	Yellow Green	Green Diffused	570	11	85	40	2.1	10
LTL1NHTGT4TZ	True Green	Green Transparent	525	1150	3500	45	3.2	20
LTL1NHTBH4J	Blue	White Diffused	470	85	520	45	3.2	20
LTW-1NHDY2	White	Water Clear	(0.27, 0.25)	4200	16000	25	3.2	20
LTW-1NHDR7JW	White	White Diffused	(0.42, 0.40)	1000	2700	70	3.2	20

3mm

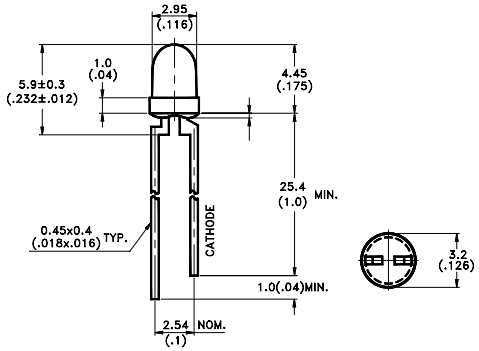
3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL17KRH5D	Super Red	Red Diffused	631	110	400	50	2.1	20
LTL17KRL6D	Red	Red Diffused	625	310	680	60	2.1	20
LTL17KET3KS	Red	Water Clear	624	2500	5500	30	2.1	20
LTL17KFL5D	Amber	Amber Diffused	605	140	680	50	2.1	20
LTL17KSL5D	Yellow	Yellow Diffused	587	180	880	50	2.1	20
LTL17KGH5D	Yellow Green	Green Diffused	571	110	520	50	2.1	20
LTL17KCGP4J	True Green	White Diffused	527	680	1900	40	3.3	20
LTL17KTGX3KS	True Green	Water Clear	525	5500	9300	30	3.2	20
LTL17KCBH5D	Blue	Blue Diffused	470	180	880	50	3.2	20
LTL17KTBS3KS	Blue	Water Clear	470	1500	3200	30	3.2	20
LTW-17KDU4Z	White	Water Clear	(0.29, 0.28)	1900	5500	45	3.2	20

3mm

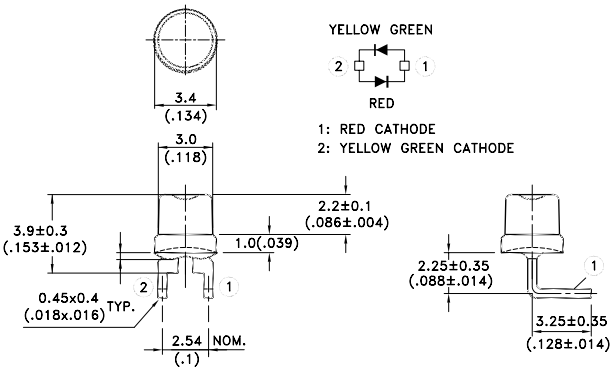
3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL42NKRKNN	Super Red	Water Clear	631	110	520	56	2.1	20
LTL42NKFKNN	Amber	Water Clear	605	140	680	56	2.1	20
LTL42NKSKNN	Yellow	Water Clear	587	180	710	56	2.1	20
LTL42NKGKNN	Yellow Green	Water Clear	571	140	680	56	2.1	20
LTL42TG6N	True Green	Water Clear	530	600	3390	45	3.5	20
LTL42TB6N	Blue	Water Clear	470	310	1500	45	3.5	20
LTW-42NDP4	White	Water Clear	(0.3, 0.3)	400	1900	45	3.3	20

3mm_Dual Color

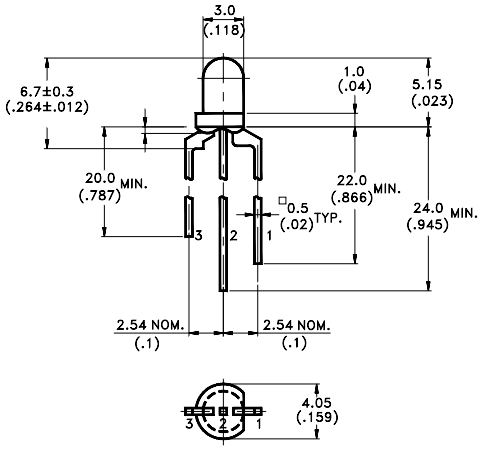
3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL67HGEJ	Red	White Diffused	624	14	65	110	2.1	20
	Yellow Green		570	14	65		2.1	

3mm_Dual Color

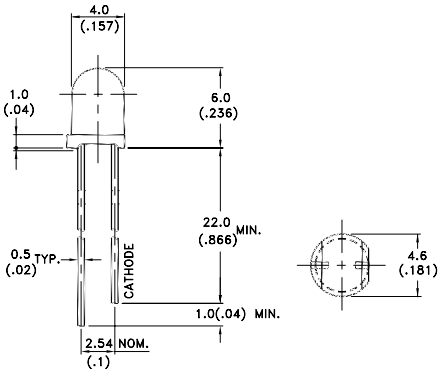
3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL1BETBEK5-HF	Red	White Diffused	624	400	1900	30	2.1	20
	Blue		470	180	1500		3.5	
LTL1BETBYJR5	Yellow	White Diffused	592	140	680	30	2.1	20
	Blue		470	110	880		3.1	
LTL1BEKVJNN	Red	White Diffused	624	65	250	45	2.1	20
	Yellow Green		572	65	450		2.1	
LTW-1BEEDNJZ	Red	White Diffused	624	110	310	30	2.1	20
	White		(0.26, 0.22)	520	1500		3.2	
LTW-1BETBKJLC	Blue	White Diffused	470	38	200	30	2.95	5
	White		(0.3, 0.3)	240	1150		2.95	

4mm

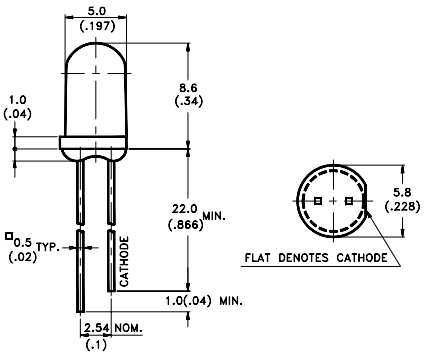
4mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL17HGL4T	Yellow Green	Green Transpaned	570	110	520	40	2.1	10
LTW-17HDU6J	White	White Diffused	(0.27, 0.25)	2500	5500	60	3.2	20
LTW-17HDW5J	White	White Diffused	(0.27, 0.24)	5500	9300	55	3.2	20
LTW-17HDY4	White	White Diffused	(0.3, 0.3)	5000	1200	40	3.2	20

5mm

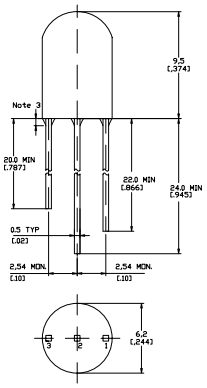
5mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL2R3KRK	Red	Water Clear	631	310	1500	30	2	20
LTL2R3KFK	Orange	Water Clear	605	240	1150	30	2	20
LTL2R3KSK	Yellow	Water Clear	589	180	1150	30	2	20
LTL2R3KG	Yellow Green	Water Clear	572	85	400	30	2	20
LTL2T3TGK6	True Green	Water Clear	525	1900	9300	30	3.2	20
LTL2T3TBK5	Blue	Water Clear	470	520	3200	30	3.2	20
LTW-2L3DV5	White	Water Clear	(0.29, 0.28)	2500	9300	30	3.2	20
LTW-2S3D8	White	Water Clear	(0.3, 0.3)	13000	29000	15	3.2	20
LTW-2V3DS3	White	Water Clear	(0.3, 0.3)	1150	3200	30	3.2	20
LTW-2W3DRA	White	Water Clear	(0.3, 0.3)	1150	3200	100	3.2	20

5mm_Dual Color

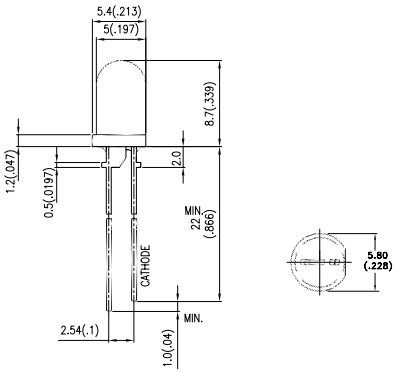
5mm Round



Part No.		Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL30EGCBKJ		Yellow Green	White Diffused	571	240	880	30	3.2	20
		Blue		470	140	520		2.1	
LTL30EJ9NN		Yellow	White Diffused	592	38	450	30	2.1	20
		Yellow Green		569	38	450		2.1	
LTL30EKDFGJ		Red	White Diffused	639	110	310	30	2.1	20
		Yellow Green		569	38	85		2.1	

5mm_0.5W

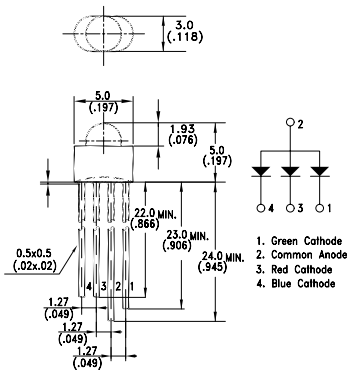
5mm Round



Part No.		Color	Lens Color	CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW2H3D51K		White	Water Clear	(0.30, 0.30)	35000	76000	15	3.0	80
LTW2P3D52K		White	Water Clear	(0.30, 0.30)	35000	76000	23	3.0	80
LTW2R3D43K		White	Water Clear	(0.30, 0.30)	27000	59000	30	3.0	80

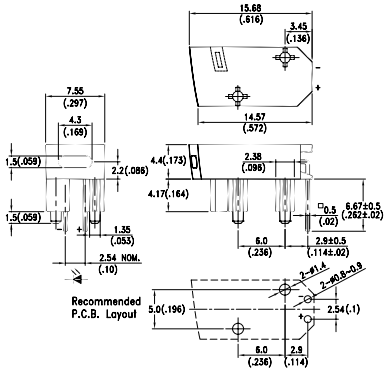
RGB Lamp

5mm



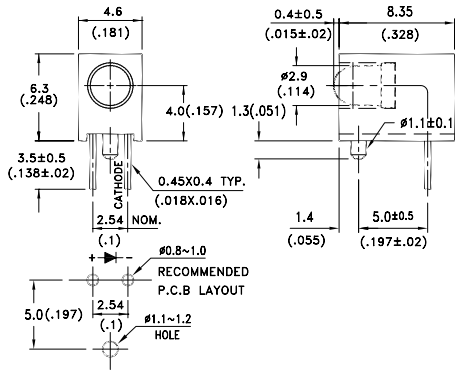
Part No	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL750RGBHBJ	Red	White Diffused	634	140	725	110	2.2	20
	True Green		525	170	870		3.2	
	Blue		470	38	170		3.2	

Circuit Board Indicator (CBI)_Single Level



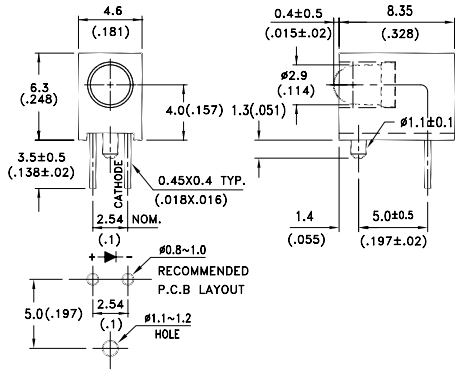
Part No.	Color	Resin Color	CIE(x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW-R4MLDGDJH234	White	White Diffused	(0.3, 0.29)	140	520	H:130 V:120	3.2	20

Circuit Board Indicator (CBI)_Single Level



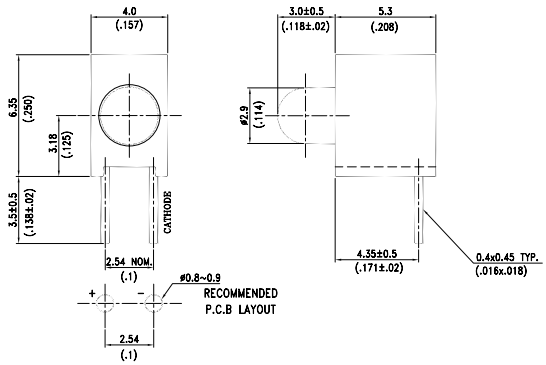
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW-42NDP4H218	White	Water clear	(0.3, 0.3)	400	1900	40	3.3	20

Circuit Board Indicator (CBI)_Single Level



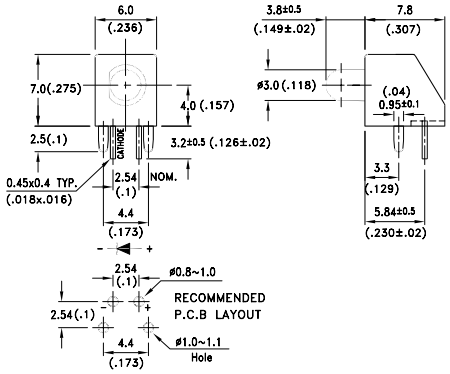
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-42NEW8DHBP-1	Red	Red Diffused	625	3.8	30	80	2.0	10

Circuit Board Indicator (CBI)_Single Level



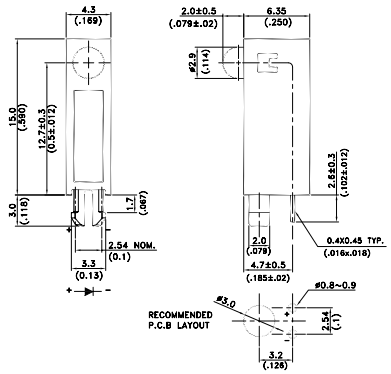
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL42TG6NH184	True Green	Water clear	525	310	1500	45	3.5	20

Circuit Board Indicator (CBI)_Single Level



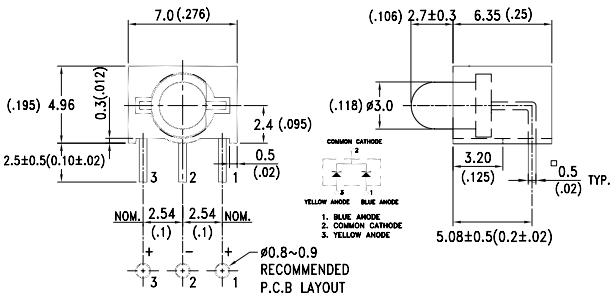
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW-1NHDR5JH231	White	White Diffused	(0.3, 0.29)	880	3200	65	3.2	20

Circuit Board Indicator (CBI)_Single Level



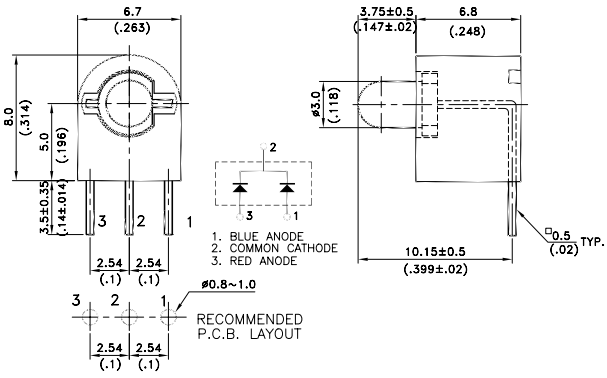
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW-42NDH8JH227	White	White Diffused	(0.3, 0.3)	85	400	80	3.2	20

Circuit Board Indicator (CBI)_Single Level



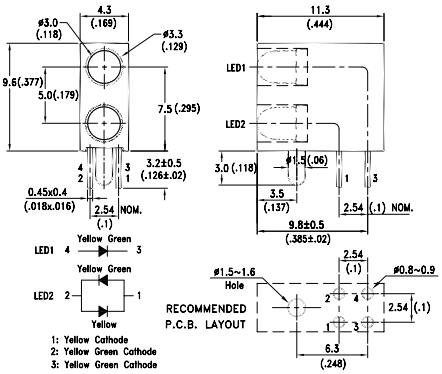
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL1BESTBKJH185P	Blue	White Diffused	468	12.6	100	75	3.2	20
	Yellow		591				2.1	

Circuit Board Indicator (CBI)_Single Level



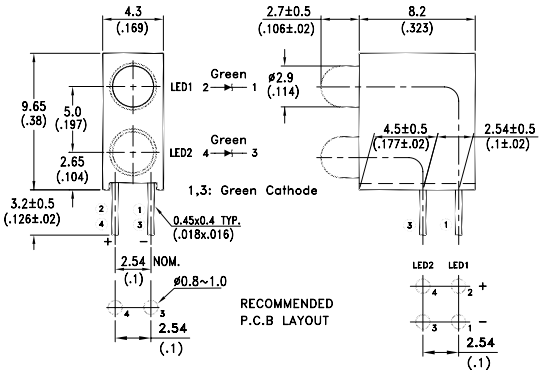
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL1BETBEK5H149	Blue	Water clear	468	180	1500	30	3.5	20
	Red		632	400	1900		2.05	

Circuit Board Indicator (CBI)_Bi-Level



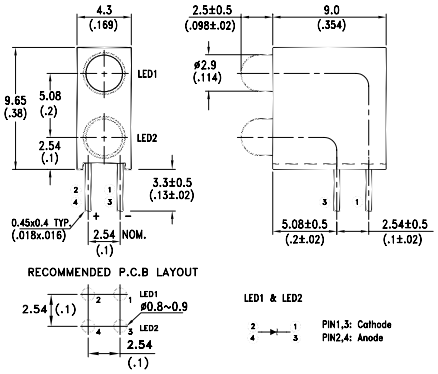
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-14CM1H183	Yellow Green	Color Diffused	565	3	50	60	2.1	20
	Yellow		585			80		

Circuit Board Indicator (CBI)_Bi-Level



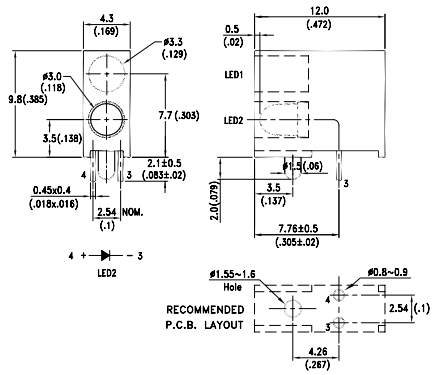
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-42M4NH106	Yellow Green	Color Diffused	565	5.6	85	60	2.1	20

Circuit Board Indicator (CBI)_Bi-Level



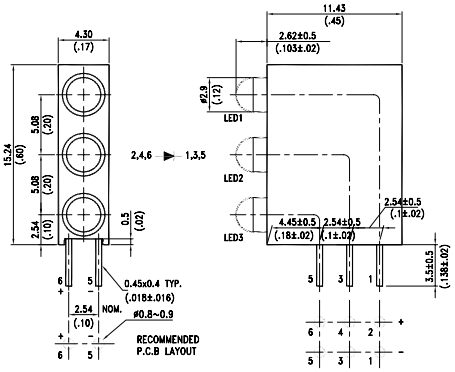
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-42NGY8D2H214	Yellow Green	Color Diffused	572	8.7	180	100	2	10

Circuit Board Indicator (CBI)_Bi-Level



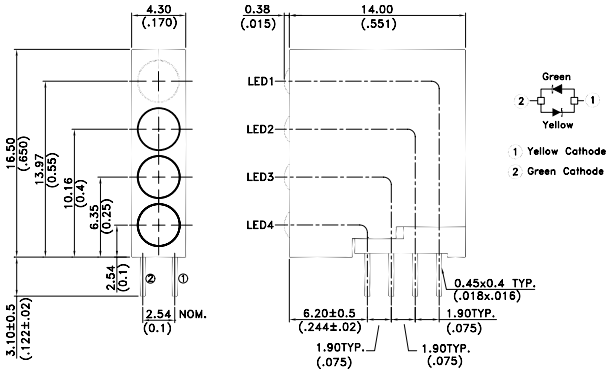
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTW-42NDH8JH229	White	White Diffused	(0.3, 0.3)	85	400	80	3.2	20

Circuit Board Indicator (CBI)_Tri-Level



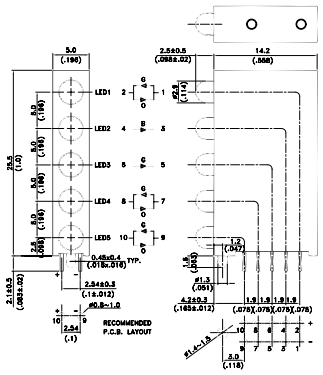
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-42M3NHKP	Yellow Green	Green Diffused	569	7	-	60	2.1	20

Circuit Board Indicator (CBI)_Quad-Level



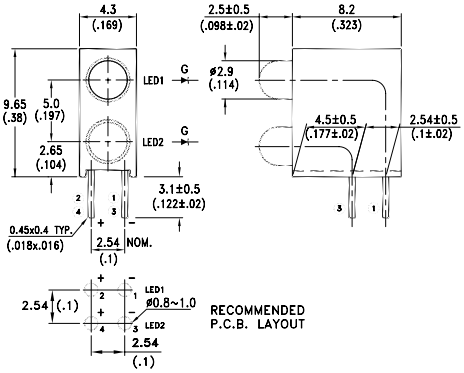
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-14CDJNH79	Yellow Green	Color Diffused	565	3	-	80	2.1	20
	Yellow		585					

Circuit Board Indicator (CBI)_Quin-Level



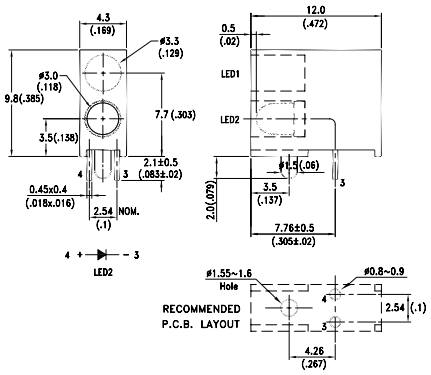
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-14CM01H232	Orange	Color Diffused	605	3	1500	100	2.0	20
	Yellow		570				2.1	
	Blue		470				3.2	

Circuit Board Indicator (CBI)_PIP



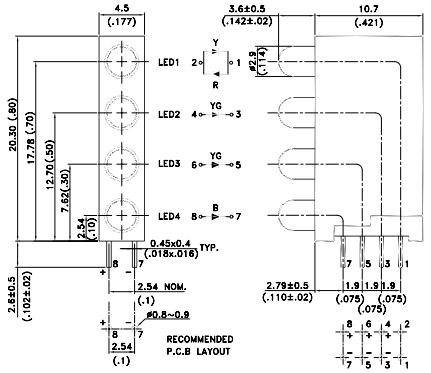
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-R42NGYAD2H106	Yellow Green	Color Diffused	569	8.7	50	100	2.0	20

Circuit Board Indicator (CBI)_PIP



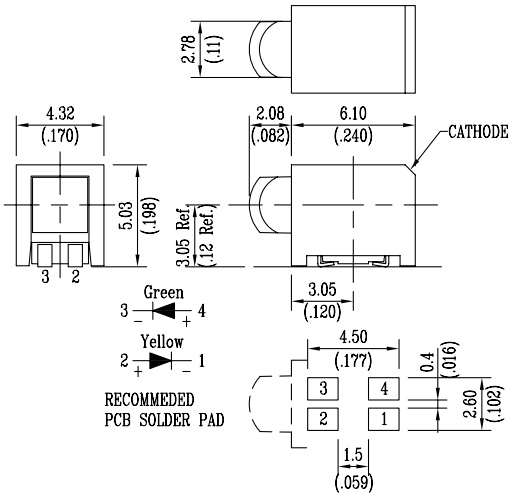
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-R42NGYADH229	Yellow Green	Color Diffused	569	8.7	50	100	2.0	20

Circuit Board Indicator (CBI)_PIP



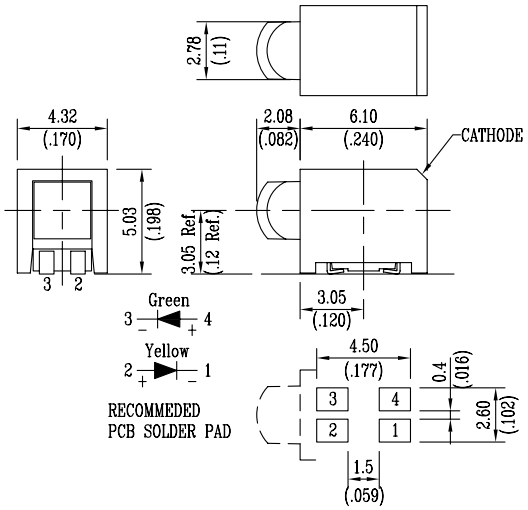
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-R42M12NH51	Red	Color Diffused	624	8.7	880	60	2.0	20
	Yellow Green		569				2.1	
	Blue		470				3.2	

Circuit Board Indicators (CBI) with SMD LED



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-M12RG1H300Q	Red	White Diffused	630	4.5	50	120	2	20
	Yellow Green		570					

Circuit Board Indicators (CBI) with SMD LED



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-M12YG1H300Q	Yellow	White Diffused	590	4.5	50	120	2	20
	Yellow Green		570					

LED Display

LED Display Quick View Table

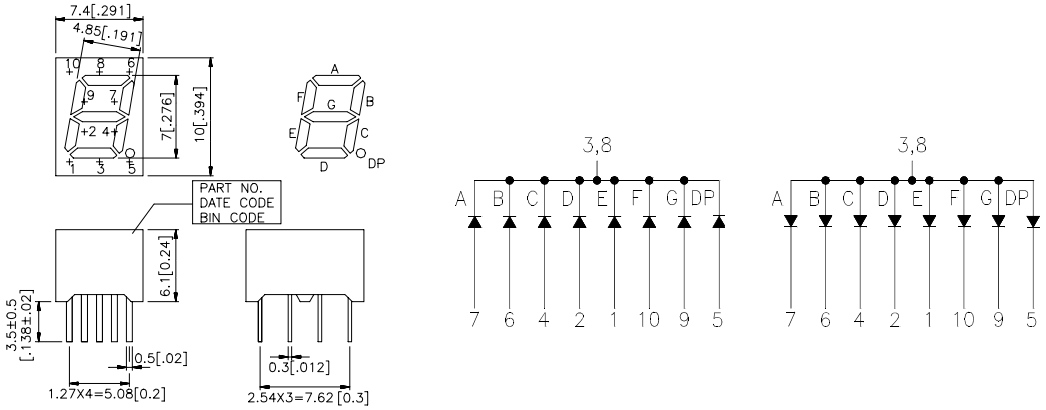
Numeric Display

Product Type	Digit	5.08 mm	7 mm	7.62 mm	8 mm	9 mm
Through Hole Type	Single Digit		LTS-2301(CC) LTS-2801(CA)	LTS-3361(CC) LTS-3861(CA)	LTS-3385(CC) LTS-3885(CA)	
	Dual Digits		LTD-2601(CA) LTD-2701(CC)	LTD-322(CC) LTD-323(CA)	-	
	Triple Digits		LTC-2621(CA) LTC-2721(CC)	-	-	
	Quadruple Digits	LTC-26C7 (CA)	LTC-2623(CA) LTC-2723(CC) LTC-2650(CA) LTC-2750(CC)	LTC-3710(CC)		
	Quintuple Digits	LTF-2606 (CA)	LTF-2505 (CA)			
SMD Type	Single Digit	LTS-2307(CC) LTS-2807(CA)	LTS-2306(CC) LTS-2806(CA)	LTS-3386 (CC) LTS-3886 (CA)		
	Dual Digits	LTD-2404 (CA)				
	Triple Digits					

9.14 mm	10 mm	13.2 mm	14.22 mm	18.4 mm	20 mm	25.4 mm	57 mm
LTS-360 (CA) LTS-367 (CC)	LTS-4301(CC) LTS-4801(CA)	LTS-546(CC) LTS-547(CA)	LTS-5x01(CA) LTS-5x03(CC)			LTS-10304(CC) LTS-10804(CA)	LTS-23305(CC) LTS-23805(CA)
	LTD-4608(CA) LTD-4708(CC)	LTD-5250(CA) LTD-5260(CC)	LTD-5x21(CA) LTD-5x23(CC) LTD-6610(CA) LTD-6410(CC)		LTD-8302(CC) LTD-8802(CA)		-
	LTC-4624(CA) LTC-4724(CC)		LTC-561(CA) LTC-571(CC)	LTC-7500(CC)			-
	LTC-4627(CA) LTC-4727(CC) LTC-46D2(CA)		LTC-57C7(CC) LTC-5623(CA) LTC-5723(CC) LTC-5653(CA) LTC-5753(CC)		-		-
	LTS-4312(CC) LTS-4812(CA) LTS-4317(CC) LTS-4817(CA)		LTS-5325(CC) LTS-5825(CA)				
	LTD-4516(CC)		LTD-5435(CA)				
	LTC-46F6 (CA)						

Numeric Display_Single Digit

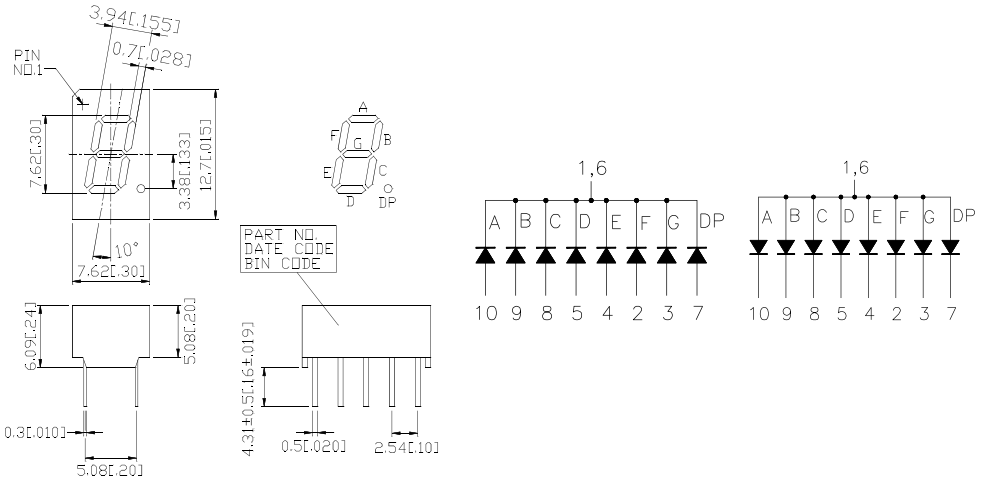
7mm (.28")
Dual-In-Line
.39" H x .29" W x .24" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-2301AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	600
LTS-2301AJR	Super Red	631		600
LTS-2301AKF	Orange	605		1200
LTS-2301AKS	Yellow	587		800
LTS-2301AKG	Yellow Green	572		800
LTS-2301ATB	Blue	470		10500
LTS-2801AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	600
LTS-2801AJR	Super Red	631		600
LTS-2801AKF	Orange	605		1200
LTS-2801AKS	Yellow	587		800
LTS-2801AKG	Yellow Green	572		800
LTS-2801ATB	Blue	470		10500

Numeric Display_Single Digit

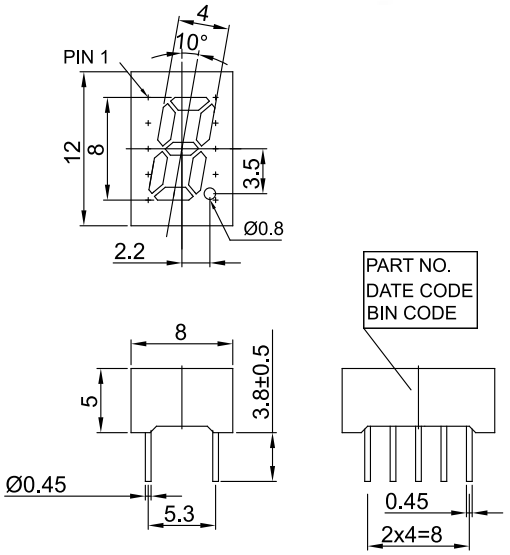
7.62mm (.3")
Dual-In-Line
.5" H x .3" W x .2" D

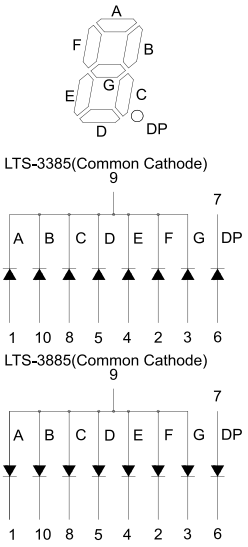


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-3361JD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	600
LTS-3361JR	Super Red	631		600
LTS-3361JF	Orange	605		1200
LTS-3361JS	Yellow	587		800
LTS-3361JG	Yellow Green	572		800
LTS-3361TB	Blue	470		10500
LTS-3861JD	Hyper Red	639	Common Anode, Rt.Hand Decimal	600
LTS-3861JR	Super Red	631		600
LTS-3861JF	Orange	605		1200
LTS-3861JS	Yellow	587		800
LTS-3861JG	Yellow Green	572		800
LTS-3861TB	Blue	470		10500

Numeric Display_Single Digit

8mm (.32")
Dual-In-Line
.47" H x .32" W x .2" D

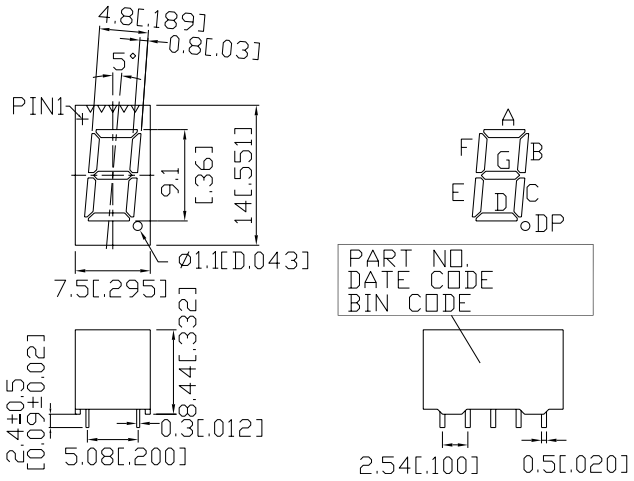




Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-3385KD	Hyper Red	639	Common Cathode, Rt. Hand Decimal	900
LTS-3385KR	Super Red	631		900
LTS-3385KF	Orange	605		1200
LTS-3385KS	Yellow	587		1200
LTS-3385KG	Yellow Green	572		1200
LTS-3385TBE	Blue	470		10500
LTS-3885KD	Hyper Red	639	Common Anode, Rt. Hand Decimal	900
LTS-3885KR	Super Red	631		900
LTS-3885KF	Orange	605		1200
LTS-3885KS	Yellow	587		1200
LTS-3885KG	Yellow Green	572		1200
LTS-3885TBE	Blue	470		10500

Numeric Display_Single Digit

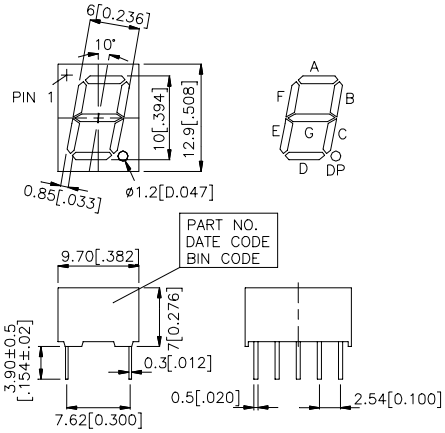
9.14mm (.36")
Dual-In-Line
.55" H x .3" W x .33" D

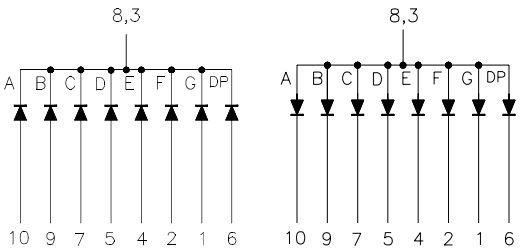


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-360KR	Hyper Red	639	Common Anode, Rt. Hand Decimal	975
LTS-360KD	Super Red	631		975
LTS-360KF	Orange	605		1200
LTS-360KS	Yellow	587		1200
LTS-360KG	Yellow Green	572		1200
LTS-367KR	Hyper Red	639	Common Cathode, Rt. Hand Decimal	900
LTS-367KD	Super Red	631		900
LTS-367KF	Orange	605		1200
LTS-367KS	Yellow	587		1200
LTS-367KG	Yellow Green	572		1200

Numeric Display_Single Digit

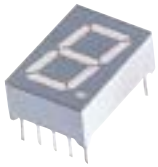
10.0mm (.4")
Dual-In-Line
.5" H x .38" W x .27" D



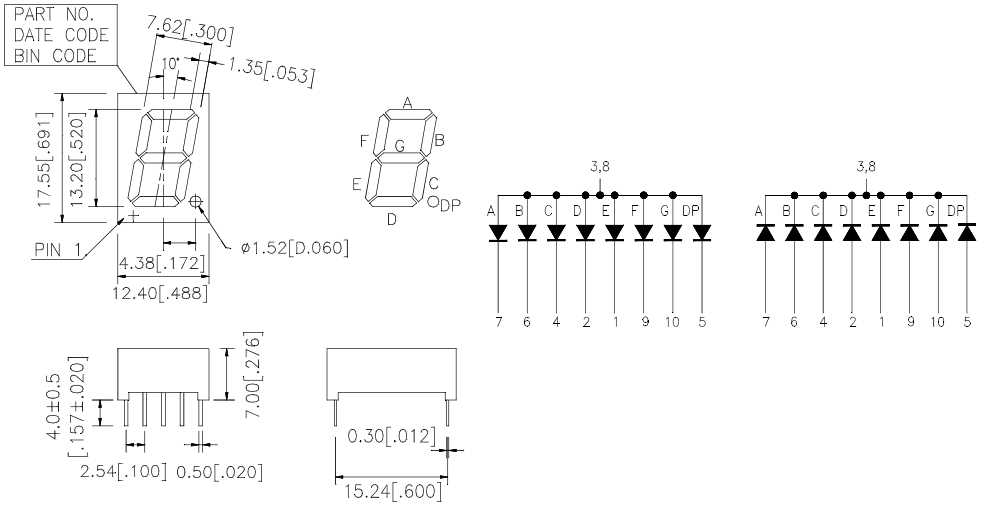


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-4301JD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	650
LTS-4301JR	Super Red	631		650
LTS-4301JF	Orange	605		1300
LTS-4301JS	Yellow	587		850
LTS-4301JG	Yellow Green	572		850
LTS-4301TB	Blue	470		10500
LTS-4801JD	Hyper Red	639	Common Anode, Rt.Hand Decimal	650
LTS-4801JR	Super Red	631		650
LTS-4801JF	Orange	605		1300
LTS-4801JS	Yellow	587		850
LTS-4801JG	Yellow Green	572		850
LTS-4801TB	Blue	470		10500

Numeric Display_Single Digit



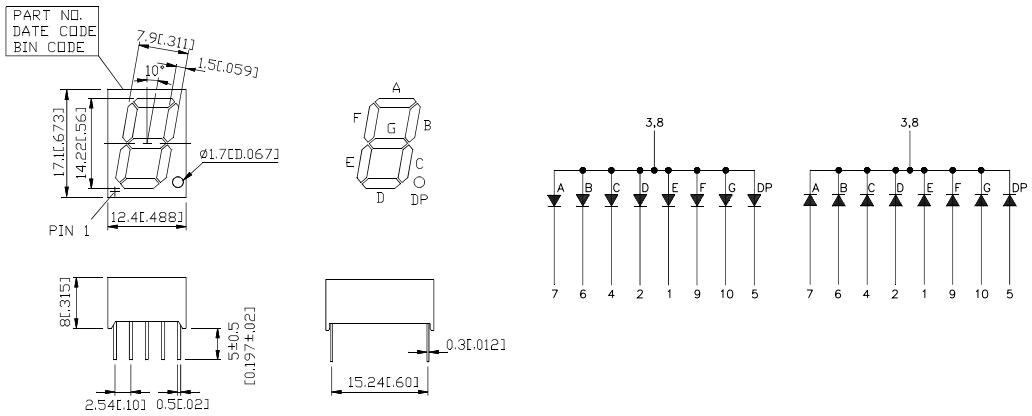
13.2mm (.52")
Dual-In-Line
.7" H x .49" W x .28" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-546AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTS-546AKR	Super Red	631		700
LTS-546AKF	Orange	605		1600
LTS-546AKS	Yellow	587		900
LTS-546AJG	Yellow Green	572		900
LTS-546TB	Blue	470		10500
LTS-547AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTS-547AJR	Super Red	631		700
LTS-547AKF	Orange	605		1600
LTS-547AKS	Yellow	587		900
LTS-547AJG	Yellow Green	572		900
LTS-547TB	Blue	470		10500

Numeric Display_Single Digit

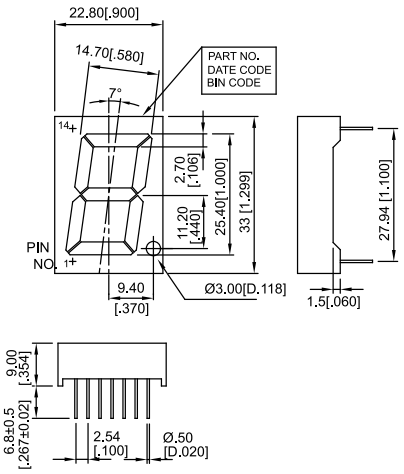
14.22mm (.56")
Dual-In-Line
.67" H x .49" W x .32" D

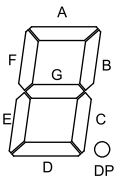


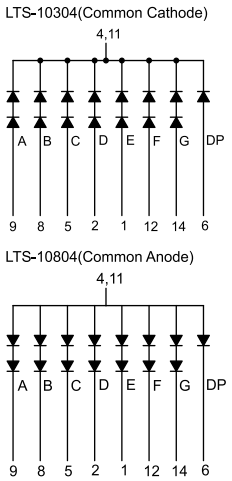
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-5001AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTS-5001AJR	Super Red	631		700
LTS-5701AKF	Orange	605		1600
LTS-5701AJS	Yellow	587		900
LTS-5601AJG	Yellow Green	572		900
LTS-5501ATB	Blue	470		10500
LTS-5003AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTS-5003AJR	Super Red	631		700
LTS-5703AKF	Orange	605		1600
LTS-5703AJS	Yellow	587		900
LTS-5603AJG	Yellow Green	572		900
LTS-5503ATB	Blue	470		10500

Numeric Display_Single Digit

25.4mm (1.0")
Dual-In-Line
.9"00 H x 1.299" W x.354 D

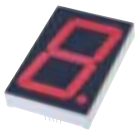




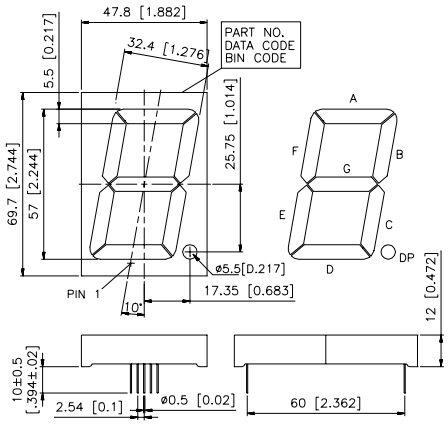


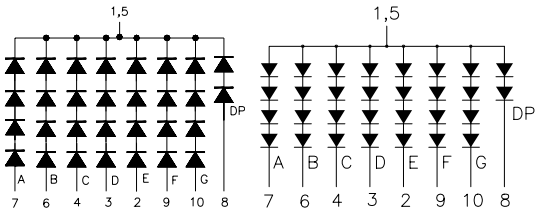
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTS-10304KD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	1800
LTS-10304KR	Super Red	631		1800
LTS-10304KF	Orange	605		2400
LTS-10304KS	Yellow	587		2400
LTS-10304KG	Yellow Green	572		2400
LTS-10304TBE	Blue	470		25000
LTS-10804KD	Hyper Red	639	Common Anode, Rt.Hand Decimal	1800
LTS-10804KR	Super Red	631		1800
LTS-10804KF	Orange	605		2400
LTS-10804KS	Yellow	587		2400
LTS-10804KG	Yellow Green	572		2400
LTS-10804TBE	Blue	470		25000

Numeric Display_Single Digit



57mm (2.244")
Dual-In-Line
1.882" H x 2.744" W x .472" D

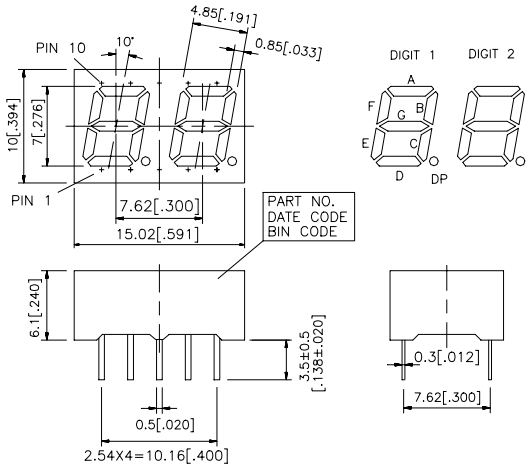


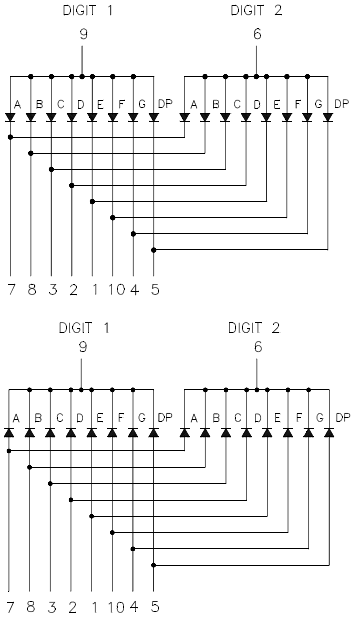


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-23305KD	Hyper Red	639	Common Cathode, Rt. & Lt. Hand Decimal	10
LTS-23305KR	Super Red	631		10
LTS-23305KF	Orange	605		10
LTS-23305KS	Yellow	587		10
LTS-23305JG	Yellow Green	572		10
LTS-23805KD	Hyper Red	639	Common Anode, Rt. & Lt. Hand Decimal	10
LTS-23805KR	Super Red	631		10
LTS-23805KF	Orange	605		10
LTS-23805KS	Yellow	587		10
LTS-23805JG	Yellow Green	572		10

Numeric Display_Dual Digits

7.0mm (.28")
Dual-In-Line
.39" H x .59" W x .24" D

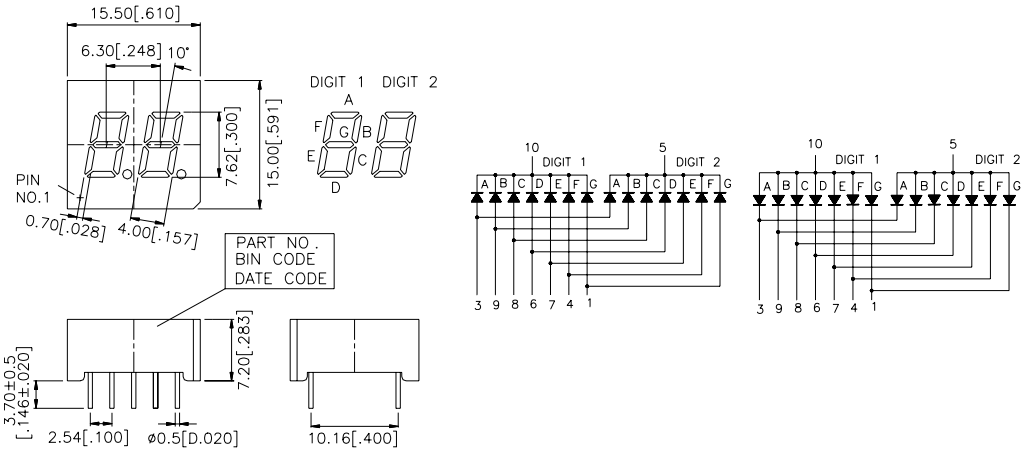




Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTD-2601JD	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	600
LTD-2601KR	Super Red	631		600
LTD-2601KF	Orange	605		1200
LTD-2601KS	Yellow	587		800
LTD-2601JG	Yellow Green	572		800
LTD-2601TB	Blue	470		7000
LTD-2701JD	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	600
LTD-2701KR	Super Red	631		600
LTD-2701KF	Orange	605		1200
LTD-2701KS	Yellow	587		800
LTD-2701JG	Yellow Green	572		800
LTD-2701TB	Blue	470		7000

Numeric Display_Dual Digits

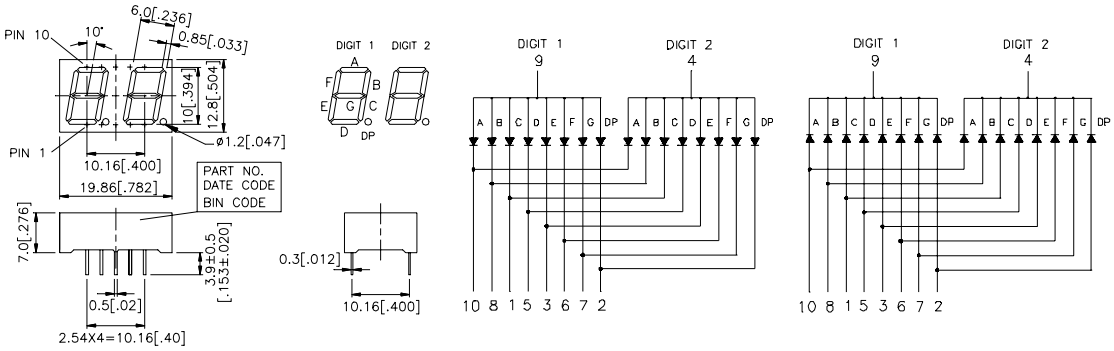
7.62mm (.3")
Dual-In-Line
.59" H x .62" W x .29" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTD-322JD	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	600
LTD-322KR	Super Red	631		600
LTD-322KF	Orange	605		1200
LTD-322KS	Yellow	587		800
LTD-322JG	Yellow Green	572		800
LTD-322TB	Blue	470		7000
LTD-323JD	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	600
LTD-323KR	Super Red	631		600
LTD-323KF	Orange	605		1200
LTD-323KS	Yellow	587		800
LTD-323JG	Yellow Green	572		800
LTD-323TB	Blue	470		7000

Numeric Display_Dual Digits

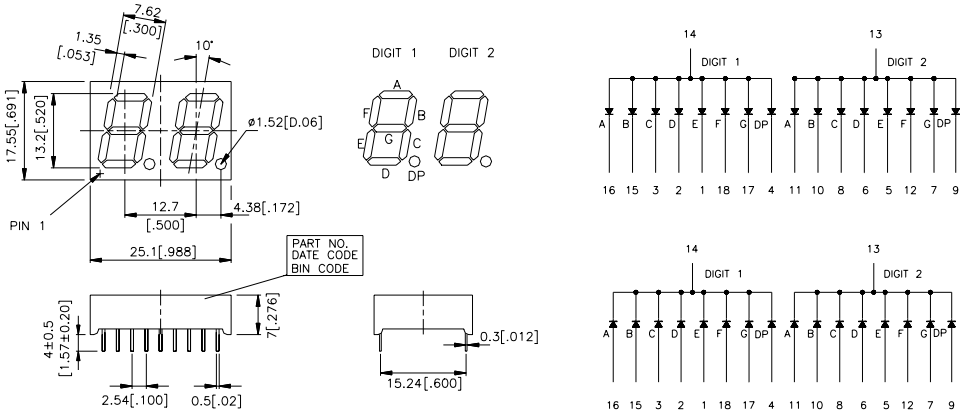
10.0mm (.4")
Dual-In-Line
.5" H x .78" W x .28" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTD-4608JD	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	650
LTD-4608KR	Super Red	631		650
LTD-4608KF	Orange	605		1300
LTD-4608JS	Yellow	587		850
LTD-4608JG	Yellow Green	572		850
LTD-4608TB	Blue	470		7000
LTD-4708JD	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	650
LTD-4708KR	Super Red	631		650
LTD-4708KF	Orange	605		1300
LTD-4708JS	Yellow	587		850
LTD-4708JG	Yellow Green	572		850
LTD-4708TB	Blue	470		7000

Numeric Display_Dual Digits

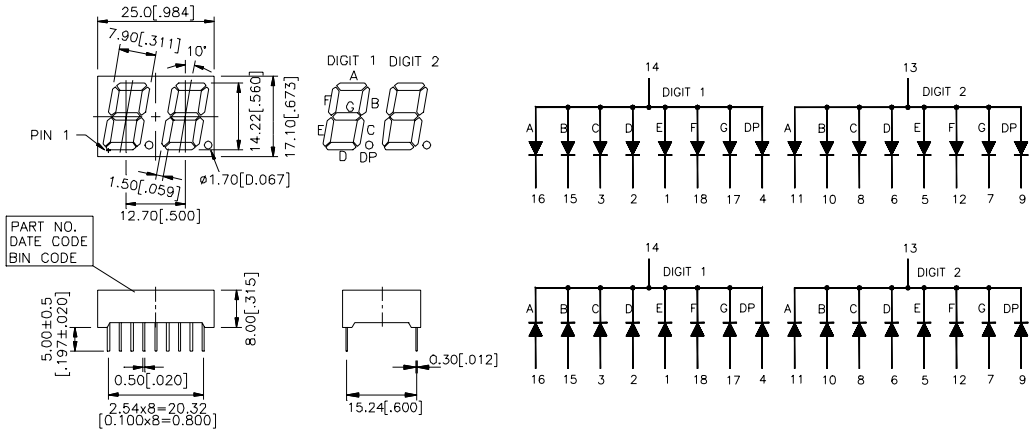
13.2mm (.52")
Dual-In-Line
.69" H x99" W x .28" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTD-5250JD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTD-5250KR	Super Red	631		700
LTD-5250KF	Orange	605		1600
LTD-5250KS	Yellow	587		900
LTD-5250KG	Yellow Green	572		900
LTD-5250TB	Blue	470		7000
LTD-5260KD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTD-5260KR	Super Red	631		700
LTD-5260KF	Orange	605		1600
LTD-5260KS	Yellow	587		900
LTD-5260KG	Yellow Green	572		900
LTD-5260TB	Blue	470		7000

Numeric Display_Dual Digits

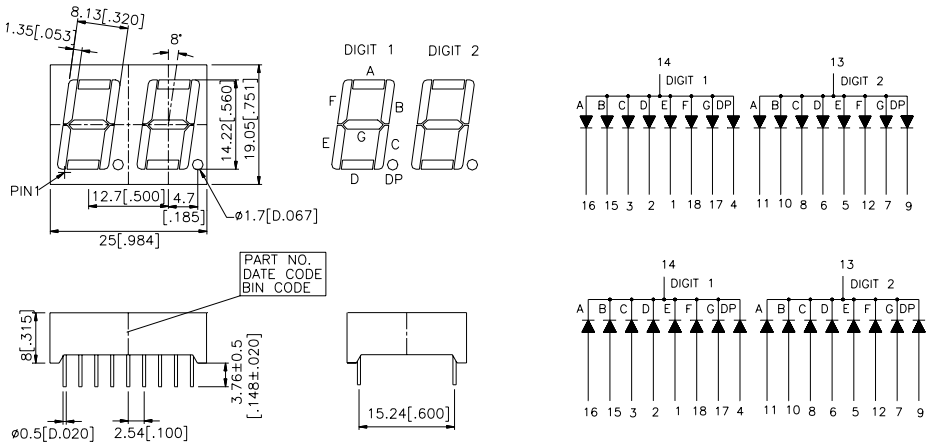
14.2mm (.56")
Dual-In-Line
.67" H x .98" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTD-5021AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTD-5521AJR	Super Red	631		700
LTD-5721AKF	Orange	605		1600
LTD-5721AJS	Yellow	587		900
LTD-5621AJG	Yellow Green	572		900
LTD-5021TB	Blue	470		7000
LTD-5023AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTD-5523AJR	Super Red	631		700
LTD-5723AKF	Orange	605		1600
LTD-5723AJS	Yellow	587		900
LTD-5623AJG	Yellow Green	572		900
LTD-5023TB	Blue	470		7000

Numeric Display_Dual Digits

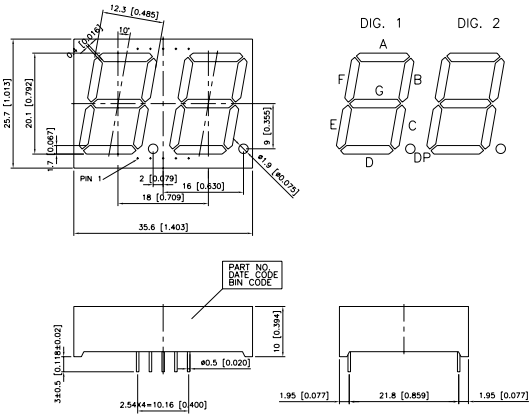
14.22mm (.56")
Dual-In-Line
.75" H x .98" W x .32" D

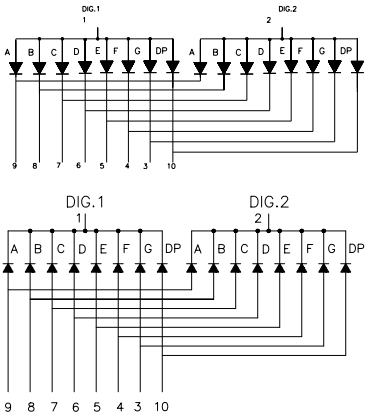


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTD-6410KD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTD-6410KR	Super Red	631		700
LTD-6410KF	Orange	605		1600
LTD-6410KS	Yellow	587		900
LTD-6410KG	Yellow Green	572		900
LTD-6410TB	Blue	470		7000
LTD-6610KD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTD-6610KR	Super Red	631		700
LTD-6610KF	Orange	605		1600
LTD-6610KS	Yellow	587		900
LTD-6610KG	Yellow Green	572		900
LTD-6610TB	Blue	470		7000

Numeric Display_Dual Digits

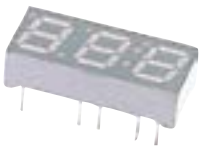
20.1mm (.79")
Dual-In-Line
1.0" H x 1.4" W x .39" D



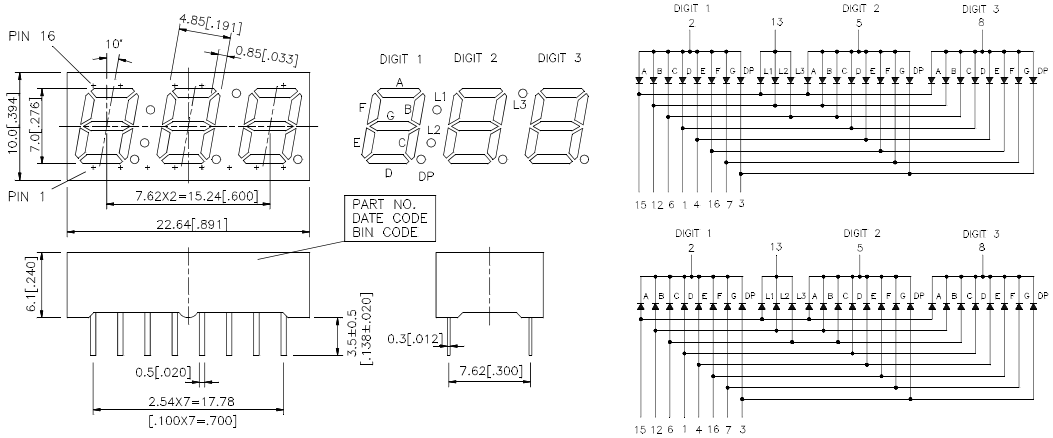


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTD-8302KR	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	1050
LTD-8302KF	Super Red	631		1600
LTD-8302KS	Orange	605		900
LTD-8302KG	Yellow	587		900
LTD-8302KD	Yellow Green	572		1500
LTD-8302TB	Blue	470		7000
LTD-8802KR	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	1050
LTD-8802KF	Super Red	631		1600
LTD-8802KS	Orange	605		900
LTD-8802KG	Yellow	587		900
LTD-8802KD	Yellow Green	572		1500
LTD-8802TB	Blue	470		7000

Numeric Display_Triple Digits



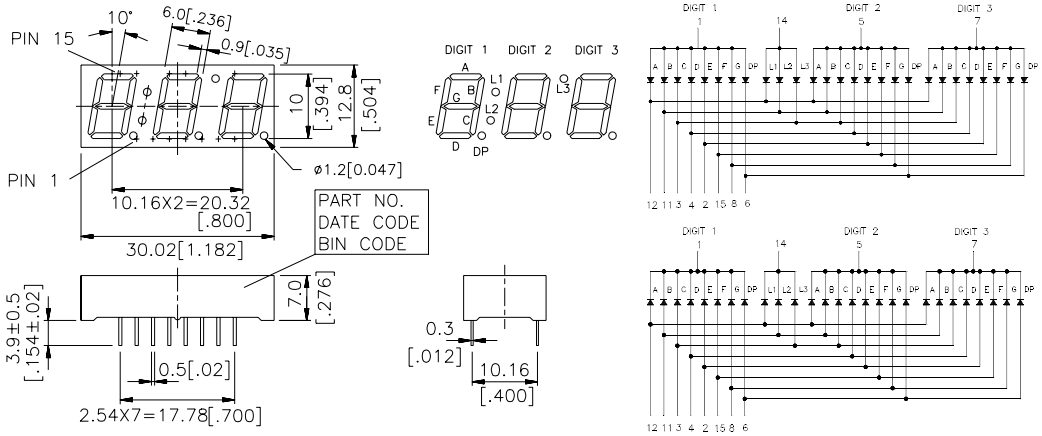
7.0mm (.28")
Dual-In-Line
.39" H x .89" W x .24" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-2621JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	600
LTC-2621JR	Super Red	631		600
LTC-2621KF	Orange	605		1200
LTC-2621KS	Yellow	587		800
LTC-2621JG	Yellow Green	572		800
LTC-2621TB	Blue	470		7000
LTC-2721JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-2721JR	Super Red	631		700
LTC-2721KF	Orange	605		1600
LTC-2721KS	Yellow	587		900
LTC-2721JG	Yellow Green	572		900
LTC-2721TB	Blue	470		7000

Numeric Display_Triple Digits

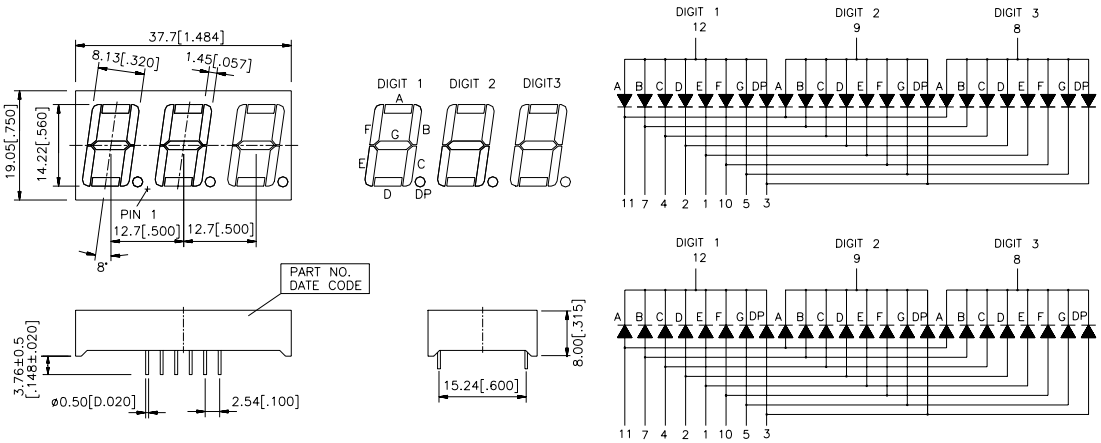
10.0mm (.40")
Dual-In-Line
.5" H x 1.18" W x .276" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-4624JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	650
LTC-4624JR	Super Red	631		650
LTC-4624KF	Orange	605		1300
LTC-4624KS	Yellow	587		850
LTC-4624JG	Yellow Green	572		850
LTC-4624TB	Blue	470		7000
LTC-4724JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTC-4724JR	Super Red	631		650
LTC-4724KF	Orange	605		1300
LTC-4724KS	Yellow	587		850
LTC-4724JG	Yellow Green	572		850
LTC-4724TB	Blue	470		7000

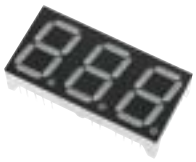
Numeric Display_Triple Digits

14.22mm (.56")
Dual-In-Line
.75" H x 1.5" W x .32" D

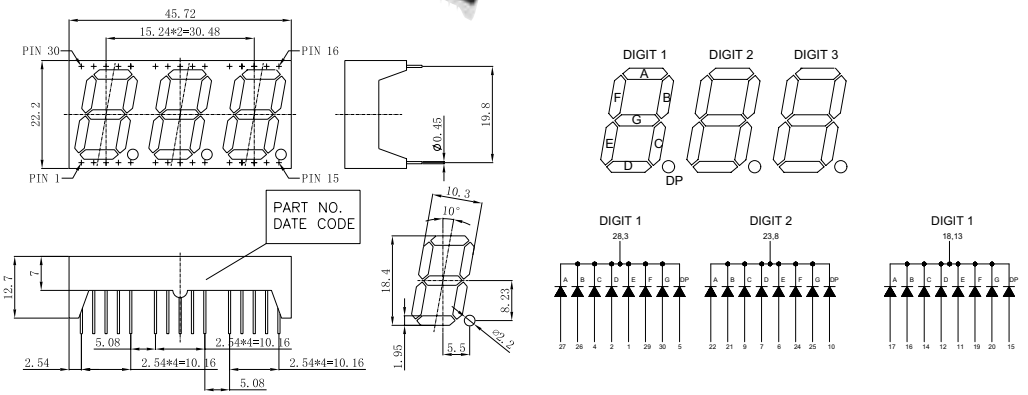


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-561JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTC-561KR	Super Red	631		700
LTC-561KF	Orange	605		1600
LTC-561KS	Yellow	587		900
LTC-561JG	Yellow Green	572		900
LTC-561TB	Blue	470		13500
LTC-571JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-571KR	Super Red	631		700
LTC-571KF	Orange	605		1600
LTC-571KS	Yellow	587		900
LTC-571JG	Yellow Green	572		900
LTC-571TB	Blue	470		13500

Numeric Display_Triple Digits



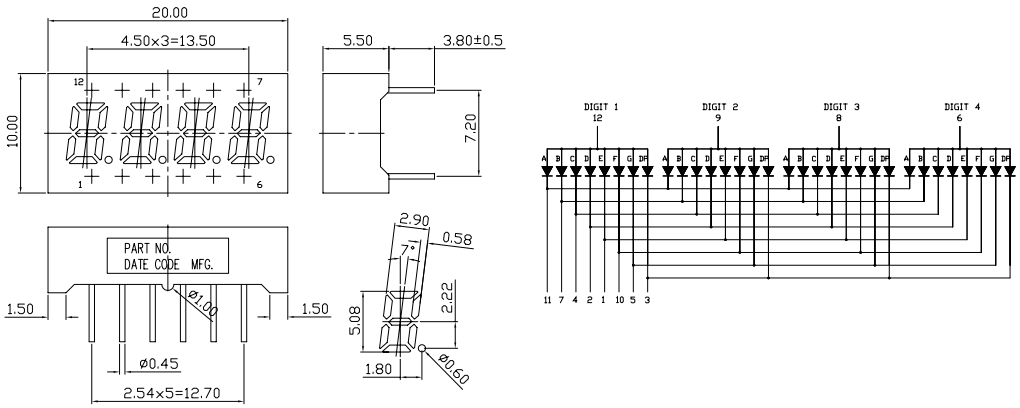
18.4mm (.72")
Dual-In-Line
.87" H x 1.8" W x .5" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-7500KD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTC-7500KR	Super Red	631		650
LTC-7500KF	Orange	605		650
LTC-7500KS	Yellow	587		650
LTC-7500KG	Yellow Green	572		650

Numeric Display_Quadruple Digits

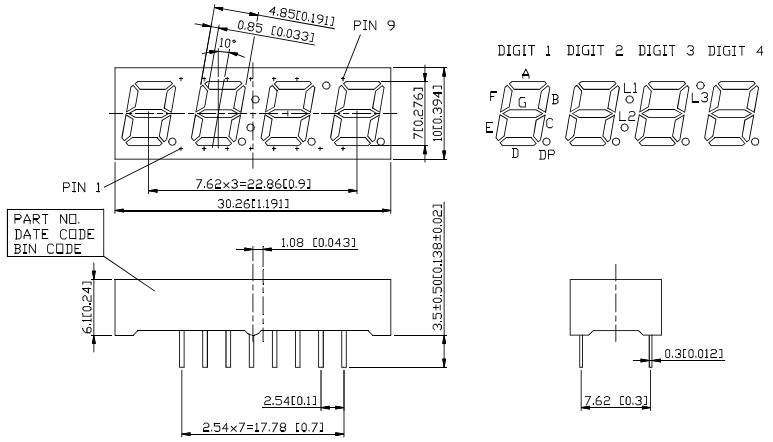
5.08mm (.2")
Dual-In-Line
.39" H x .79" W x .22" D

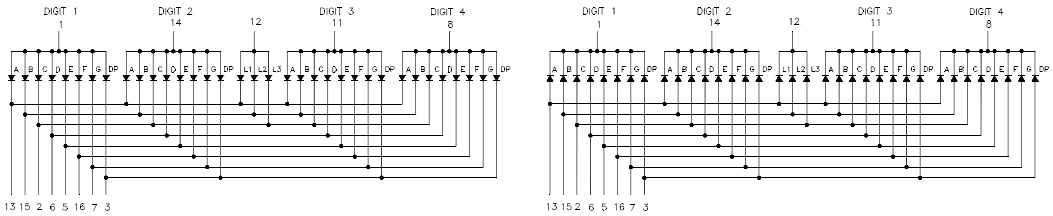


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-26C7KD-02	Hyper Red	639	Multiplex Common Anode	900

Numeric Display_Quadruple Digits

7.0mm (.28")
Dual-In-Line
.39" H x 1.19" W x .24" D

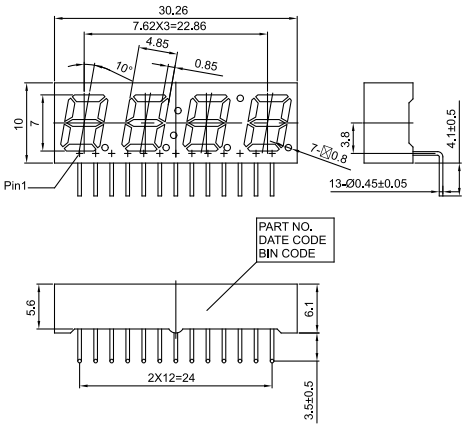


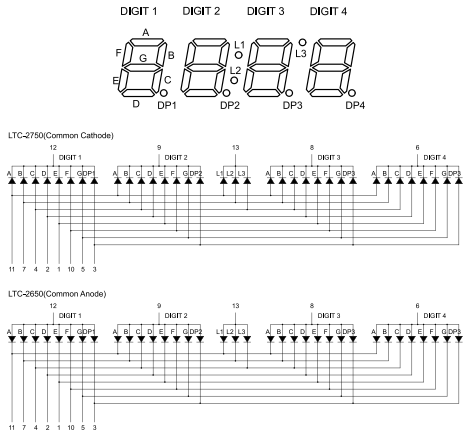


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTC-2623JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	600
LTC-2623JR	Super Red	631		600
LTC-2623JF	Orange	605		1200
LTC-2623JS	Yellow	587		800
LTC-2623JG	Yellow Green	572		800
LTC-2623TB	Blue	470		8500
LTC-2723JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	600
LTC-2723JR	Super Red	631		600
LTC-2723JF	Orange	605		1200
LTC-2723JS	Yellow	587		800
LTC-2723JG	Yellow Green	572		800
LTC-2723TB	Blue	470		8500

Numeric Display_Quadruple Digits

7.0mm (.28")
Dual-In-Line
.39" H x 1.19" W x .24" D

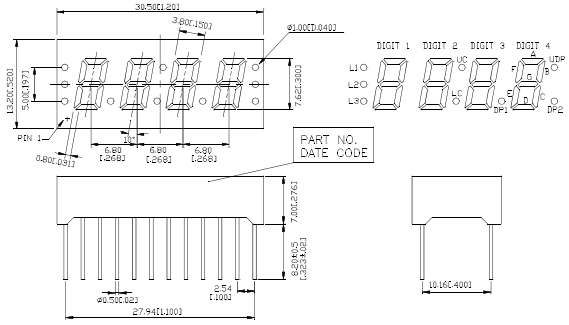


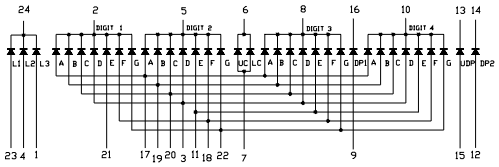


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTC-2650KD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	380
LTC-2650KR	Super Red	631		380
LTC-2650KF	Orange	605		415
LTC-2650KS	Yellow	587		415
LTC-2650JG	Yellow Green	572		415
LTC-2650TBE	Blue	470		8500
LTC-2750KD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	380
LTC-2750KR	Super Red	631		380
LTC-2750KF	Orange	605		415
LTC-2750KS	Yellow	587		415
LTC-2750JG	Yellow Green	572		415
LTC-2750TBE	Blue	470		8500

Numeric Display_Quadruple Digits

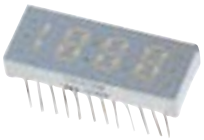
Epoxy Type
7.62mm (.30")
Dual-In-Line
.52" H x 1.2" W x .28" D



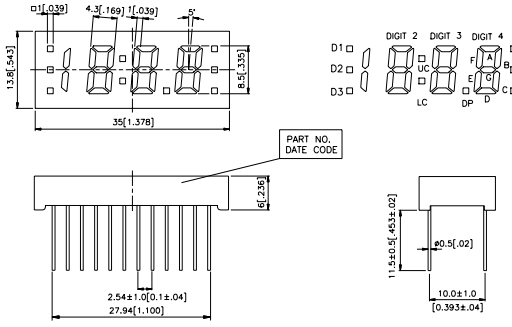


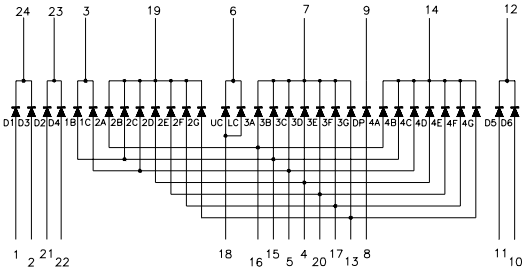
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTC-3710KD	Red	640	Multiplex Common Cathode, Full Feature	800
LTC-3710KG	Yellow Green	572		600

Numeric Display_Quadruple Digits



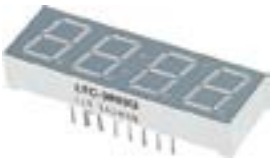
Epoxy Type
8.5mm (.34")
Dual-In-Line
.54" H x 1.38" W x .24" D



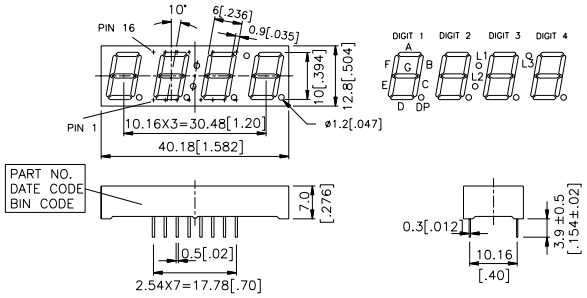


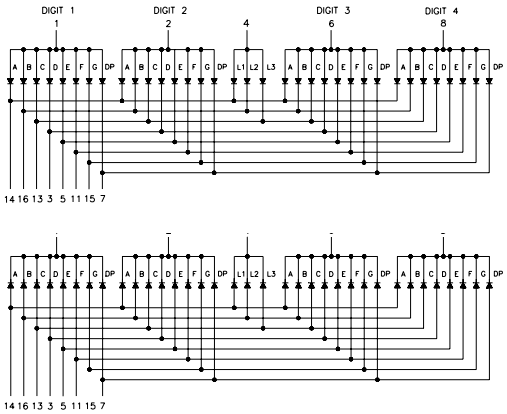
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTC-3718KD	Red	640	Multiplex Common Cathode, Full Feature	850
LTC-3718KG	Yellow Green	572		640

Numeric Display_Quadruple Digits



10.0mm (.40")
Dual-In-Line
.5" H x 1.58" W x .28" D

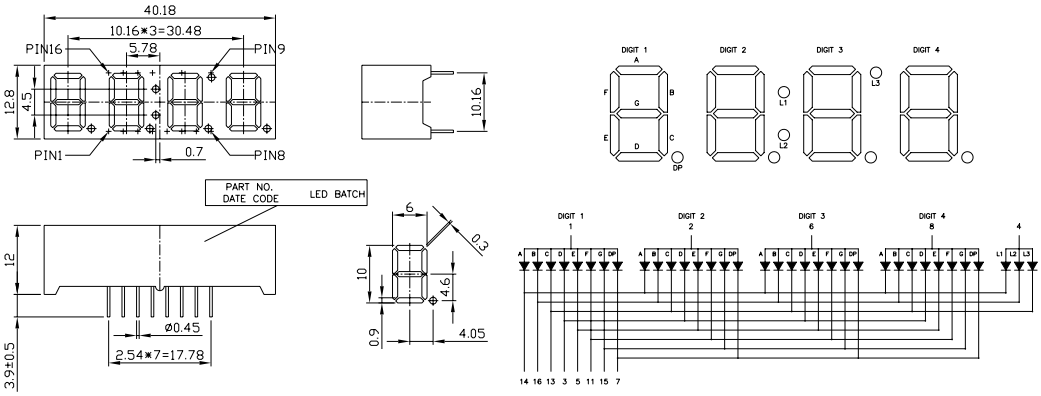




Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-4627JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	650
LTC-4627JR	Super Red	631		650
LTC-4627JF	Orange	605		850
LTC-4627JS	Yellow	587		850
LTC-4627JG	Yellow Green	572		850
LTC-4627TB	Blue	470		11500
LTC-4727JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTC-4727JR	Super Red	631		650
LTC-4727JF	Orange	605		850
LTC-4727JS	Yellow	587		850
LTC-4727JG	Yellow Green	572		850
LTC-4727TB	Blue	470		11500

Numeric Display_Quadruple Digits

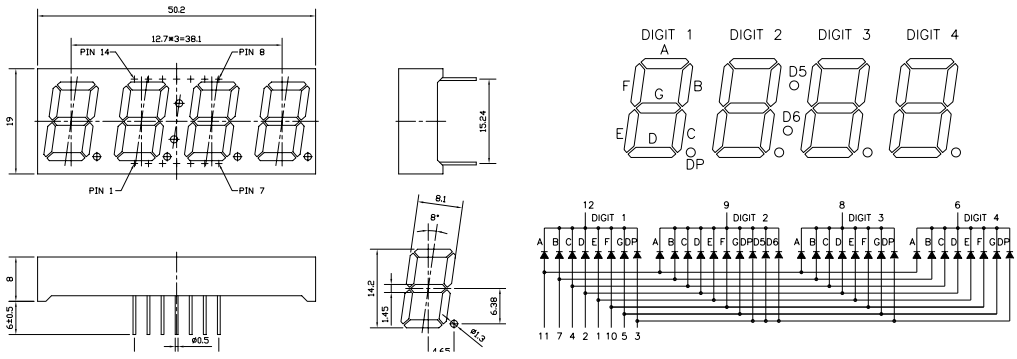
10mm (.39")
Dual-In-Line
.63" H x 1.73" W x .15" D



Part No.	Color	CIE (x,y)	Description	Typ. Luminous Intensity Iv/Seg @I_F=5mA (µcd)
LTC-46D2SW	White	(0.294,0.286)	Multiplex Common Anode	165000

Numeric Display_Quadruple Digits

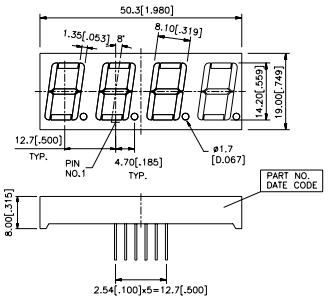
14.2mm (.56")
Dual-In-Line
.75" H x 1.98" W x .32" D

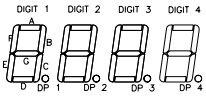


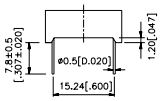
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=10mA (µcd)
LTC-57C7KD	Hyper Red	639	Multiplex Common Cathode	700
LTC-57C7KR	Super Red	631		700
LTC-57C7KF	Orange	605		1600
LTC-57C7KS	Yellow	587		900
LTC-57C7KG	Yellow Green	572		900

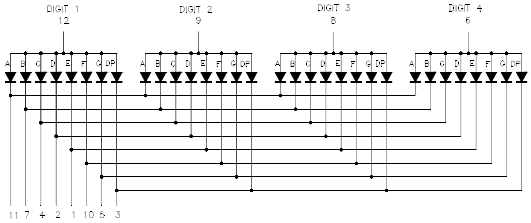
Numeric Display_Quadruple Digits

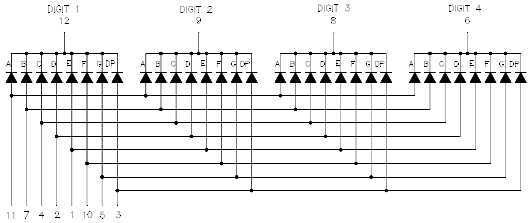
14.22mm (.56")
Dual-In-Line
.75" H x 1.98" W x .32" D







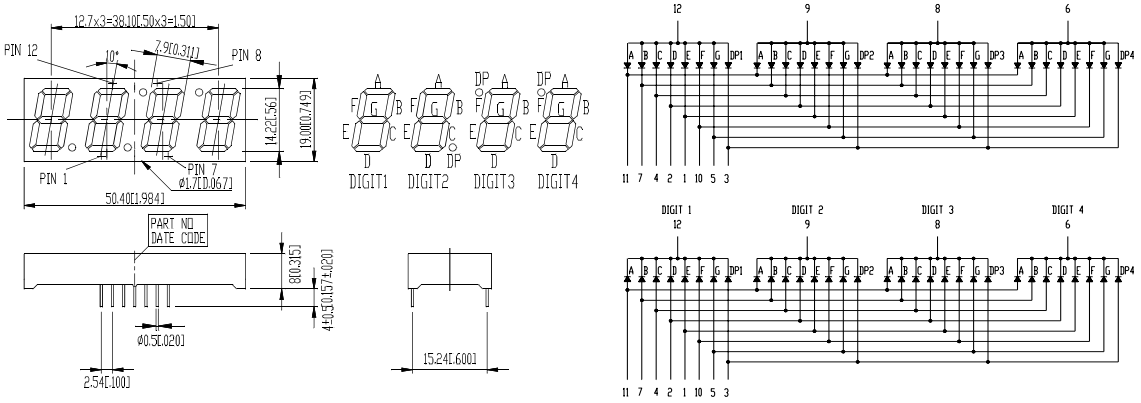




Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTC-5623JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTC-5623KR	Super Red	631		700
LTC-5623KF	Orange	605		1600
LTC-5623KS	Yellow	587		900
LTC-5623JG	Yellow Green	572		900
LTC-5623TB	Blue	470		13500
LTC-5723JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-5723KR	Super Red	631		700
LTC-5723KF	Orange	605		1600
LTC-5723KS	Yellow	587		900
LTC-5723JG	Yellow Green	572		900
LTC-5723TB	Blue	470		13500

Numeric Display_Quadruple Digits

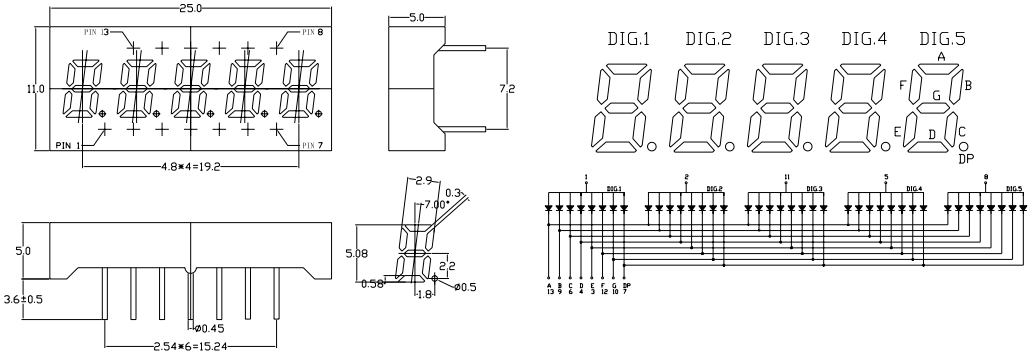
14.22mm (.56")
Dual-In-Line
.75" H x 1.98" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTC-5653KD-01	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTC-5653KR-01	Super Red	631		700
LTC-5653KF-01	Orange	605		1600
LTC-5653KS-01	Yellow	587		900
LTC-5653KG-01	Yellow Green	572		900
LTC-5653TB-01	Blue	470		13500
LTC-5753KD-01	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-5753KR-01	Super Red	631		700
LTC-5753KF-01	Orange	605		1600
LTC-5753KS-01	Yellow	587		900
LTC-5753KG-01	Yellow Green	572		900
LTC-5753TB-01	Blue	470		13500

Numeric Display_Quintuple Digits

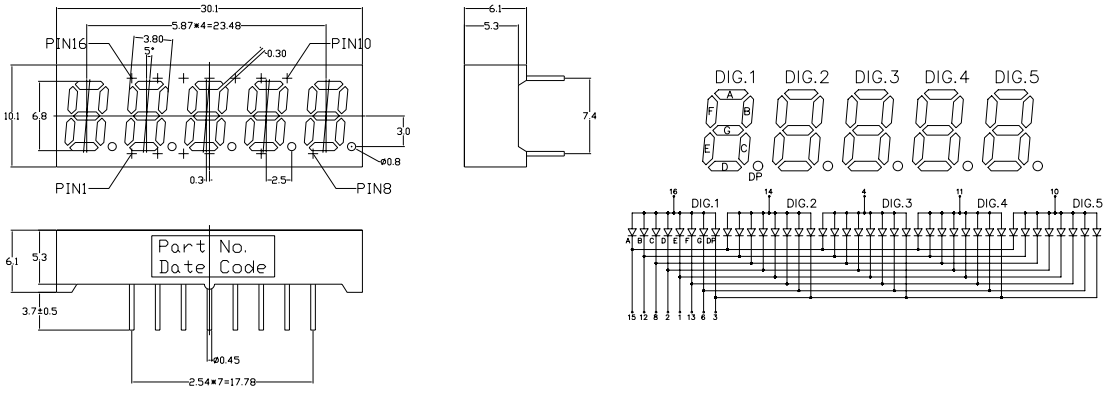
5.08mm (.2")
Dual-In-Line
.43" H x .98" W x .19" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTF-2606KD	Hyper Red	639		700
LTF-2606KR	Super Red	631		650
LTF-2606KF	Orange	605	Multiplex Common Anode, Rt.Hand Decimal	1600
LTF-2606KS	Yellow	587		900
LTF-2606KG	Yellow Green	572		900

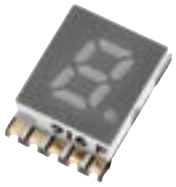
Numeric Display_Quintuple Digits

6.8mm (.26")
Dual-In-Line
.39" H x 1.18" W x .24" D

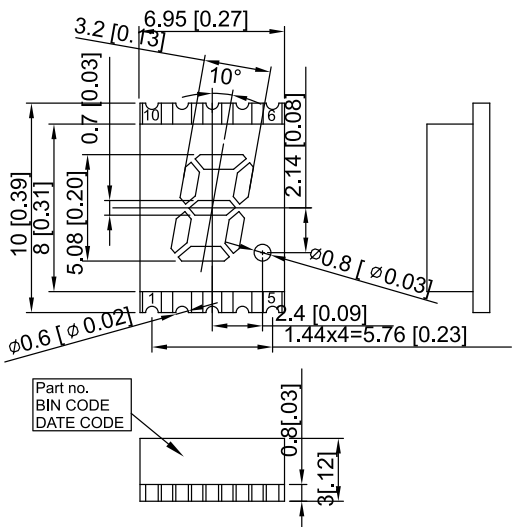


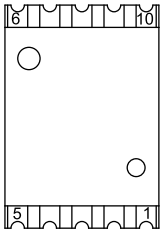
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTF-2505KD	Hyper Red	639		700
LTF-2505KR	Super Red	631		900
LTF-2505KF	Orange	605	Multiplex Common Anode, Rt.Hand Decimal	1600
LTF-2505KS	Yellow	587		900
LTF-2505KG	Yellow Green	572		900

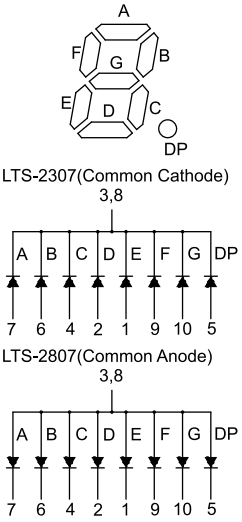
Numeric Display_SMD Type



5.08mm (.2")
Dual-in-Line
.39" H x .27" W x .12" D



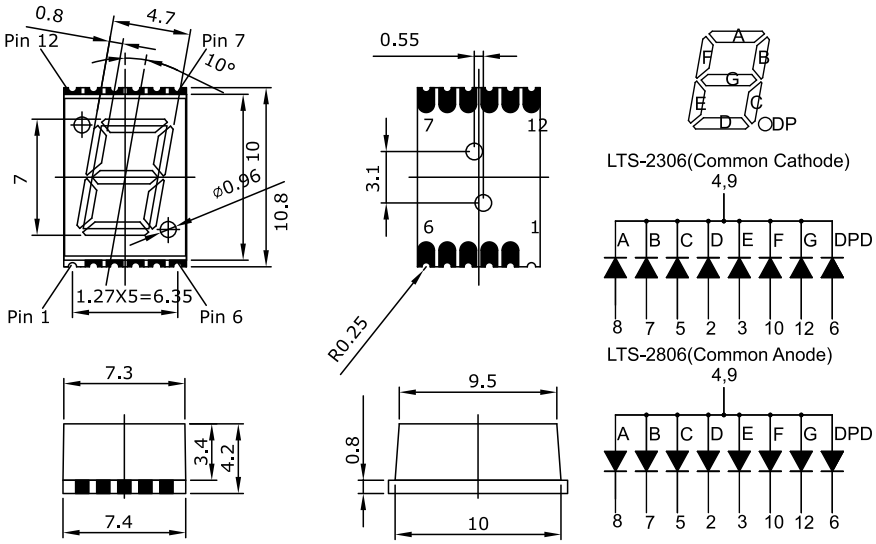




Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (µcd)
LTS-2307CKD-P	Hyper Red	639	Common Cathode	560
LTS-2307CKR-P	Super Red	631		560
LTS-2307CKF-P	Orange	605		720
LTS-2307CKS-P	Yellow	587		720
LTS-2307CKG-P	Yellow Green	572		720
LTS-2307TBE-P	Blue	470		3500
LTS-2807CKG-P	Yellow Green	572	Common Anode	720
LTS-2807CKD-P	Hyper Red	639		560
LTS-2807CKR-P	Super Red	631		560
LTS-2807CKF-P	Orange	605		720
LTS-2807CKS-P	Yellow	587		720
LTS-2807TBE-P	Blue	470		3500

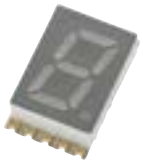
Numeric Display_SMD Type

7mm (.28")
Dual-in-Line
.43" H x .29" W x .17" D

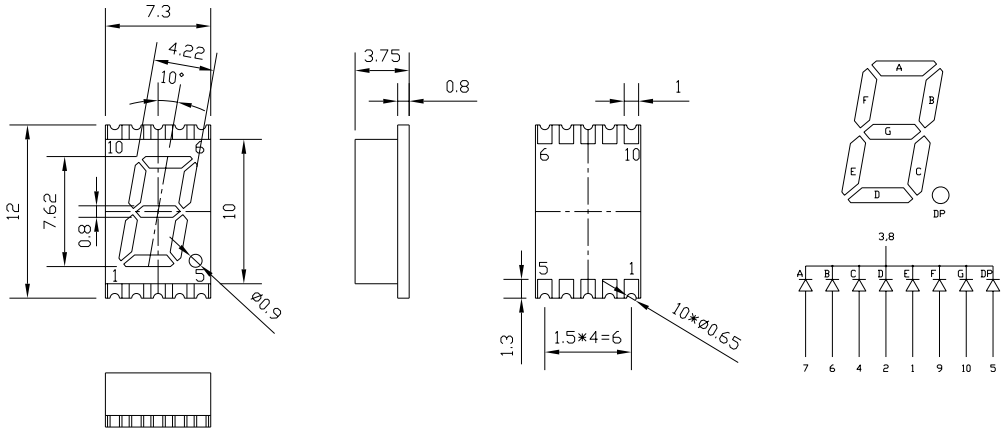


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (μcd)
LTS-2306CKD-P	Hyper Red	639	Common Cathode	560
LTS-2306CKR-P	Super Red	631		560
LTS-2306CKF-P	Orange	605		720
LTS-2306CKS-P	Yellow	587		720
LTS-2306CKG-P	Yellow Green	572		720
LTS-2306TBE-P	Blue	470		3500
LTS-2806CKD-P	Hyper Red	639	Common Anode	560
LTS-2806CKR-P	Super Red	631		560
LTS-2806CKF-P	Orange	605		720
LTS-2806CKS-P	Yellow	587		720
LTS-2806CKG-P	Yellow Green	572		720
LTS-2806TBE-P	Blue	470		3500

Numeric Display_SMD Type

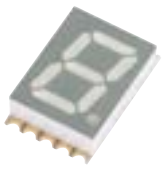


7.62mm (.3")
Dual-in-Line
.47" H x .28" W x .14" D

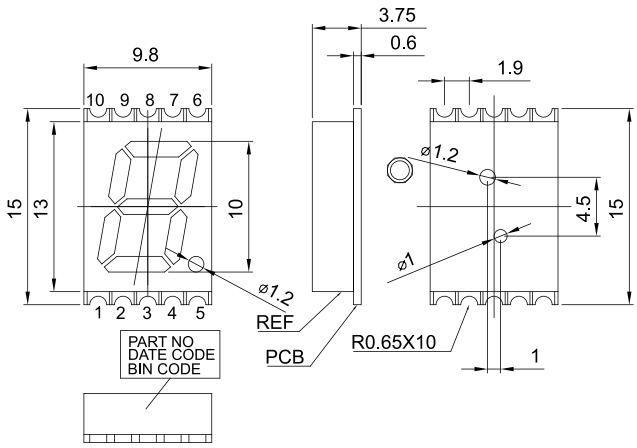


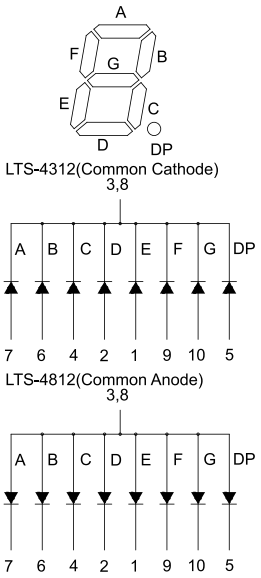
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTS-3386CKD-P	Hyper Red	639	Common Cathode	650
LTS-3386CKR-P	Super Red	631		650
LTS-3386CKF-P	Orange	605		650
LTS-3386CKS-P	Yellow	587		650
LTS-3386CKG-P	Yellow Green	572		650
LTS-3386CTB-P	Blue	470		7000
LTS-3886CKD-P	Hyper Red	639	Common Anode	650
LTS-3886CKR-P	Super Red	631		650
LTS-3886CKF-P	Orange	605		650
LTS-3886CKS-P	Yellow	587		650
LTS-3886CKG-P	Yellow Green	572		650
LTS-3886CTB-P	Blue	470		7000

Numeric Display_SMD Type



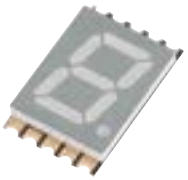
10mm (.4")
Dual-in-Line
.59" H x .39" W x .15" D



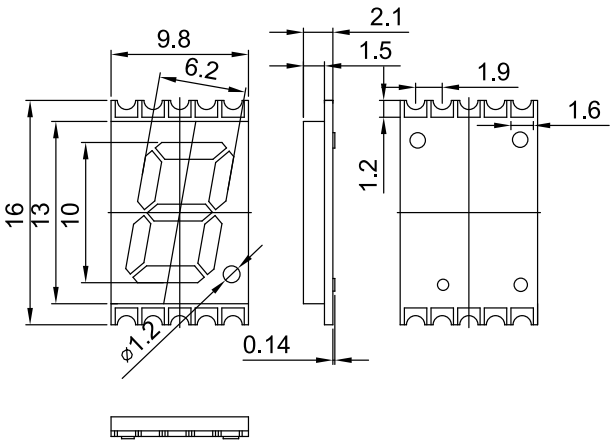


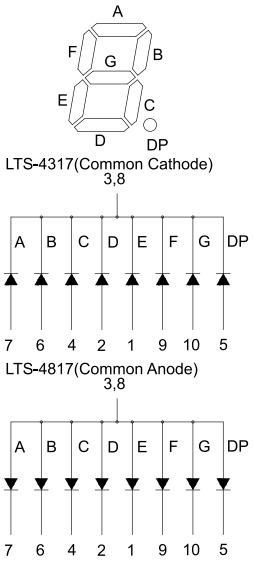
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (μcd)
LTS-4312CKD-PM	Hyper Red	639	Common Cathode	639
LTS-4312CKR-PM	Super Red	631		639
LTS-4312CKF-PM	Orange	605		830
LTS-4312CKS-PM	Yellow	587		830
LTS-4312CKG-PM	Yellow Green	572		830
LTS-4312TBE-PM	Blue	470		4000
LTS-4812CKD-PM	Hyper Red	639	Common Anode	639
LTS-4812CKR-PM	Super Red	631		639
LTS-4812CKF-PM	Orange	605		830
LTS-4812CKS-PM	Yellow	587		830
LTS-4812CKG-PM	Yellow Green	572		830
LTS-4812TBE-PM	Blue	470		4000

Numeric Display_SMD Type



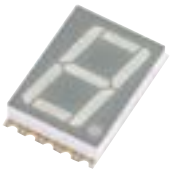
10mm (.4")
Dual-in-Line
.63" H x .39" W x .08" D



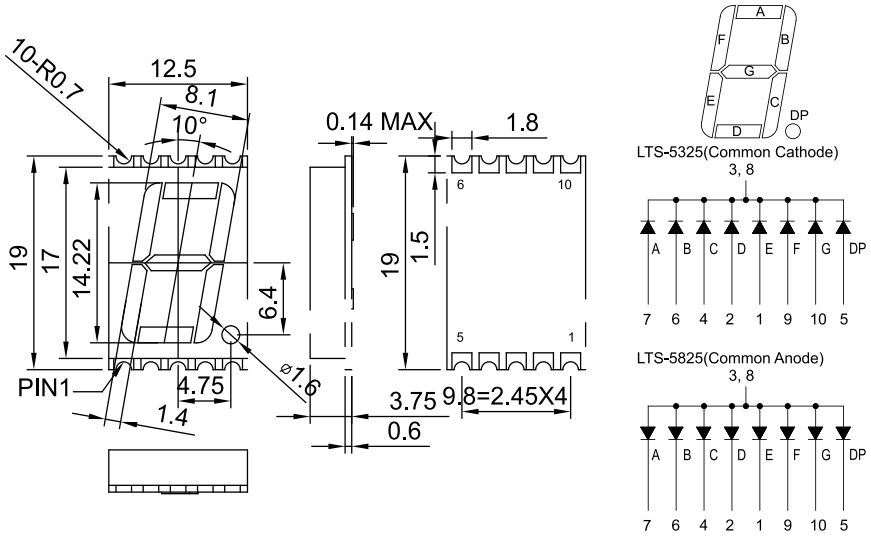


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (µcd)
LTS-4317CKD-P	Hyper Red	639	Common Cathode	639
LTS-4317CKR-P	Super Red	631		639
LTS-4317CKF-P	Orange	605		830
LTS-4317CKS-P	Yellow	587		830
LTS-4317CKG-P	Yellow Green	572		830
LTS-4317TBE-P	Blue	470		4000
LTS-4817CKD-P	Hyper Red	639	Common Anode	639
LTS-4817CKR-P	Super Red	631		639
LTS-4817CKF-P	Orange	605		830
LTS-4817CKS-P	Yellow	587		830
LTS-4817CKG-P	Yellow Green	572		830
LTS-4817TBE-P	Blue	470		4000

Numeric Display_SMD Type



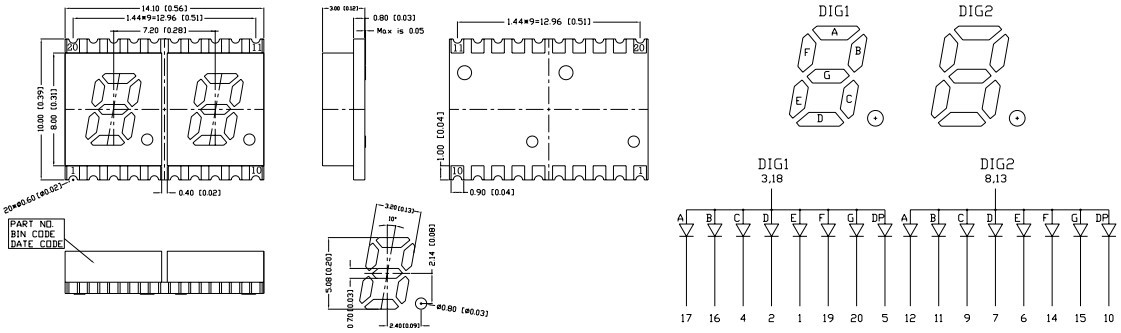
14.22mm (.56")
Dual-in-Line
.75" H x .49" W x .15" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (μcd)
LTS-5325CKD-P	Hyper Red	639	Common Cathode	1020
LTS-5325CKR-P	Super Red	631		1020
LTS-5325CKF-P	Orange	605		1300
LTS-5325CKS-P	Yellow	587		1300
LTS-5325CKG-P	Yellow Green	572		1300
LTS-5325TBE-P	Blue	470		6500
LTS-5825CKD-P	Hyper Red	639	Common Anode	1020
LTS-5825CKR-P	Super Red	631		1020
LTS-5825CKF-P	Orange	605		1300
LTS-5825CKS-P	Yellow	587		1300
LTS-5825CKG-P	Yellow Green	572		1300
LTS-5825TBE-P	Blue	470		6500

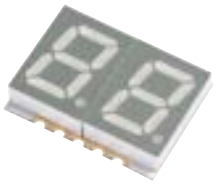
Numeric Display_SMD Type

5.08mm (.2")
Dual-In-Line
.39" H x .56" W x .12" D

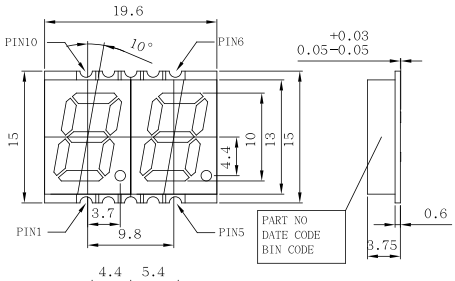


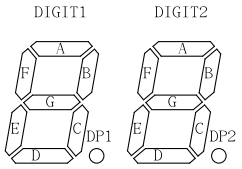
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTD-2404CKD-P	Hyper Red	639	Common Anode	650
LTD-2404CKR-P	Super Red	631		650
LTD-2404CKF-P	Orange	605		400
LTD-2404CKS-P	Yellow	587		400
LTD-2404CKG-P	Yellow Green	572		400
LTD-2404SW-P	White	-		180000

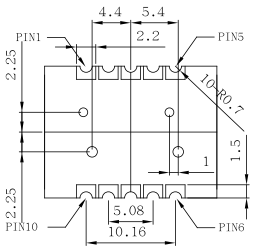
Numeric Display_SMD Type

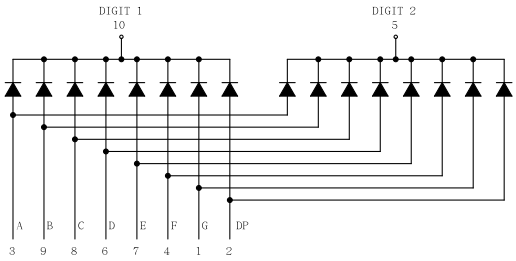


10.0mm (.4")
Dual-In-Line
.59" H x .78" W x .15" D



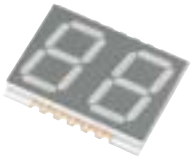




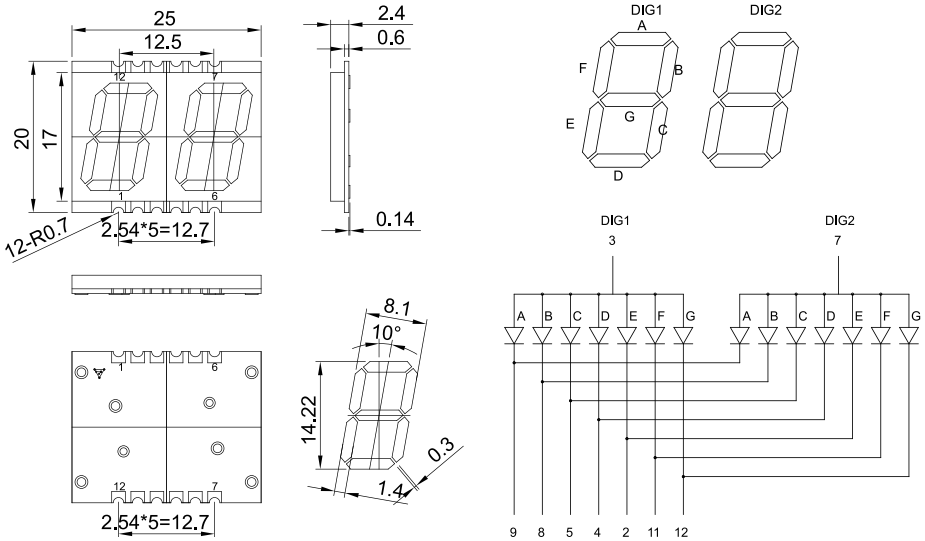


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (μcd)
LTD-4516CKD-PM	Hyper Red	639	Multiplexed, Common Cathode	639
LTD-4516CKR-PM	Super Red	631		639
LTD-4516CKF-PM	Orange	605		830
LTD-4516CKS-PM	Yellow	587		830
LTD-4516CKG-PM	Yellow Green	572		830
LTD-4516TBE-PM	Blue	470		4000

Numeric Display_SMD Type



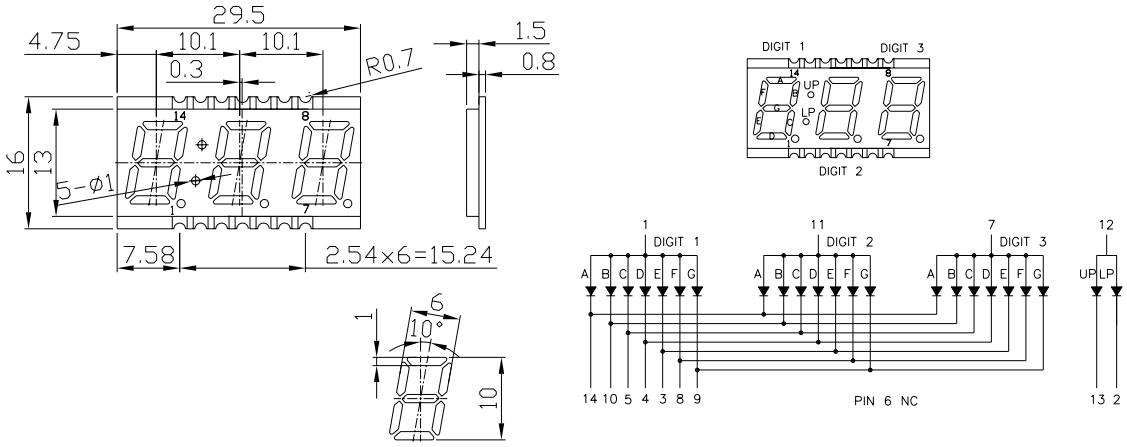
14.22mm (.56")
Dual-In-Line
.79" H x .98" W x .09" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=2mA (µcd)
LTD-5435CKD-P	Hyper Red	639	Multiplex Common Anode	620
LTD-5435CKR-P	Super Red	631		620
LTD-5435CKF-P	Orange	605		620
LTD-5435CKS-P	Yellow	587		800
LTD-5435CKG-P	Yellow Green	572		800
LTD-5435TBE-P	Blue	470		3900

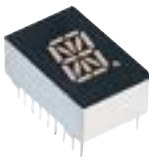
Numeric Display_SMD Type

10mm (.4")
Dual-In-Line
.62" H x 1.16" W x .09" D

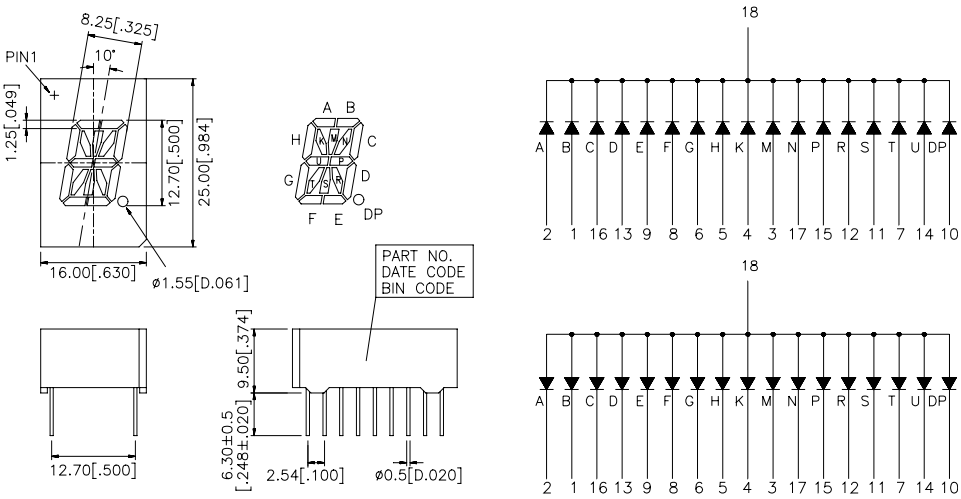


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (μcd)
LTC-46F6CKD-P	Hyper Red	639	Multiplex Common Anode	620
LTC-46F6CKR-P	Super Red	631		620
LTC-46F6CKF-P	Orange	605		620
LTC-46F6CKS-P	Yellow	587		800
LTC-46F6CKG-P	Yellow Green	572		800
LTC-46F6TB-P	Blue	470		3900

Alphanumeric Display

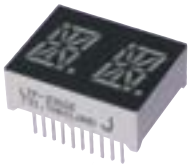


12.7mm (.5")
Dual-In-Line
1" H x .63" W x .38" D

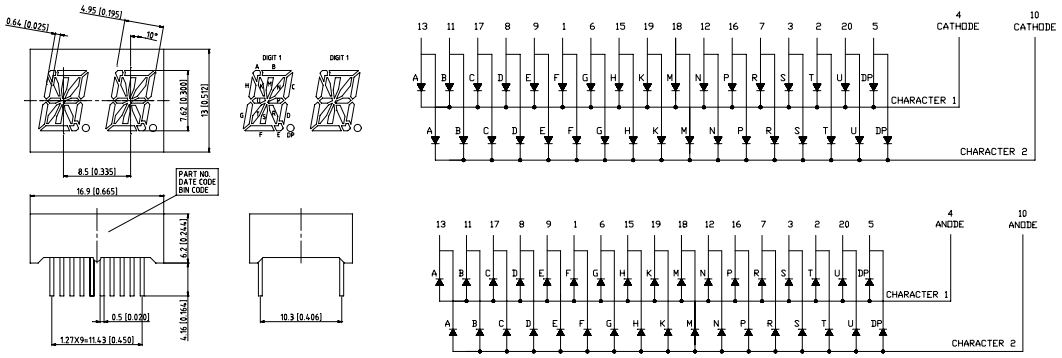


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTP-537KD	Hyper Red	639	Common Cathode, Single, Dual Character, Rt. Hand Decimal	700
LTP-537KR	Super Red	631		700
LTP-537KS	Orange	605		1600
LTP-537KF	Yellow	587		900
LTP-537KG	Yellow Green	572		900
LTP-587KD	Hyper Red	639	Common Anode, Single, Dual Character, Rt. Hand Decimal	700
LTP-587KR	Super Red	631		700
LTP-587KS	Orange	605		1600
LTP-587KF	Yellow	587		900
LTP-587KG	Yellow Green	572		900

Alphanumeric Display

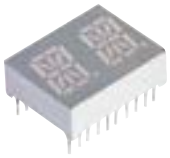


7.62mm (.3")
Dual-In-Line
.51" H x .67" W x .24" D

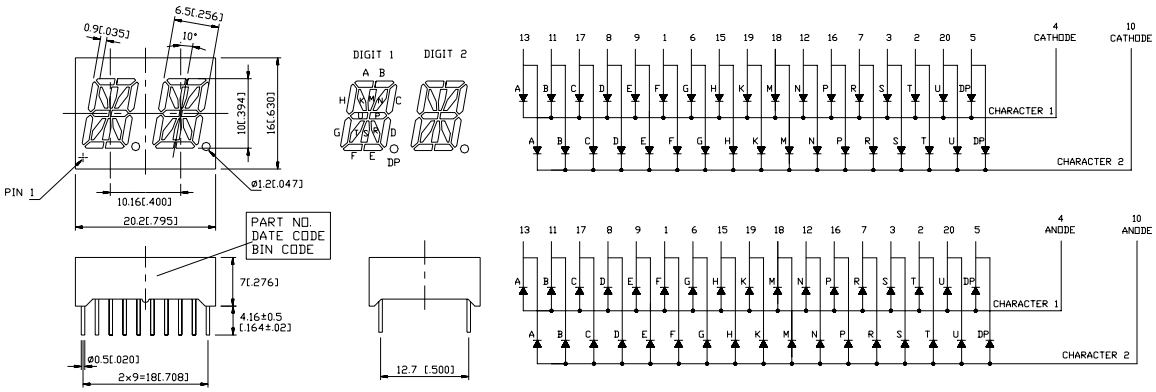


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTP-3362JD	Hyper Red	639	Common Cathode, Duplex, Dual Character, Rt. Hand Decimal	600
LTP-3362JR	Super Red	631		600
LTP-3362JS	Orange	605		1200
LTP-3362JF	Yellow	587		800
LTP-3362JG	Yellow Green	572		800
LTP-3862JD	Hyper Red	639	Common Anode, Duplex, Dual Character, Rt. Hand Decimal	600
LTP-3862JR	Super Red	631		600
LTP-3862JS	Orange	605		1200
LTP-3862JF	Yellow	587		800
LTP-3862JG	Yellow Green	572		800

Alphanumeric Display



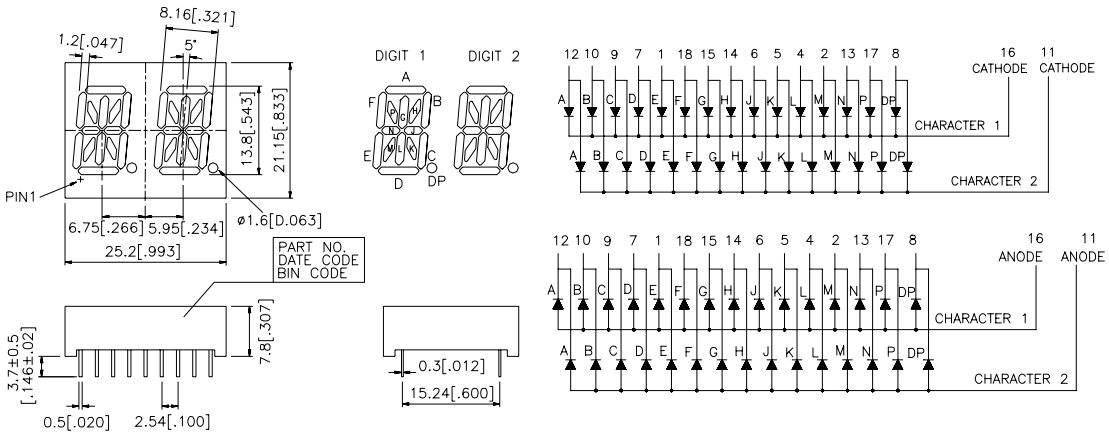
10.4mm (.4")
Dual-In-Line
.63" H x .8" W x .28" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTP-4323JD	Hyper Red	639	Common Cathode, Duplex, Dual Character, Rt. Hand Decimal	650
LTP-4323KR	Super Red	631		650
LTP-4323KS	Orange	605		1300
LTP-4323KF	Yellow	587		850
LTP-4323JG	Yellow Green	572		850
LTP-4823JD	Hyper Red	639	Common Anode, Duplex, Dual Character, Rt. Hand Decimal	650
LTP-4823KR	Super Red	631		650
LTP-4823KS	Orange	605		1300
LTP-4823KF	Yellow	587		850
LTP-4823JG	Yellow Green	572		850

Alphanumeric Display

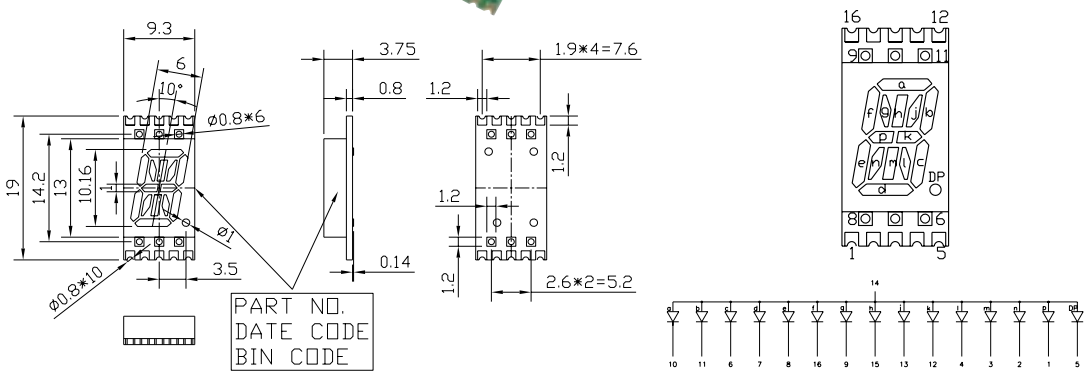
13.8mm (.54")
Dual-In-Line
.84" H x 1" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTP-3784KD-01	Hyper Red	639	Common Cathode, Duplex, Dual Character, Rt. Hand Decimal	700
LTP-3784KR-01	Super Red	631		700
LTP-3784KF-01	Orange	605		1600
LTP-3784KS-01	Yellow	587		900
LTP-3784JG-01	Yellow Green	572		900
LTP-3786KD-01	Hyper Red	639	Common Anode, Duplex, Dual Character, Rt. Hand Decimal	700
LTP-3786KR-01	Super Red	631		700
LTP-3786KF-01	Orange	605		1600
LTP-3786KS-01	Yellow	587		900
LTP-3786JG-01	Yellow Green	572		900

Alphanumeric Display_SMD Type

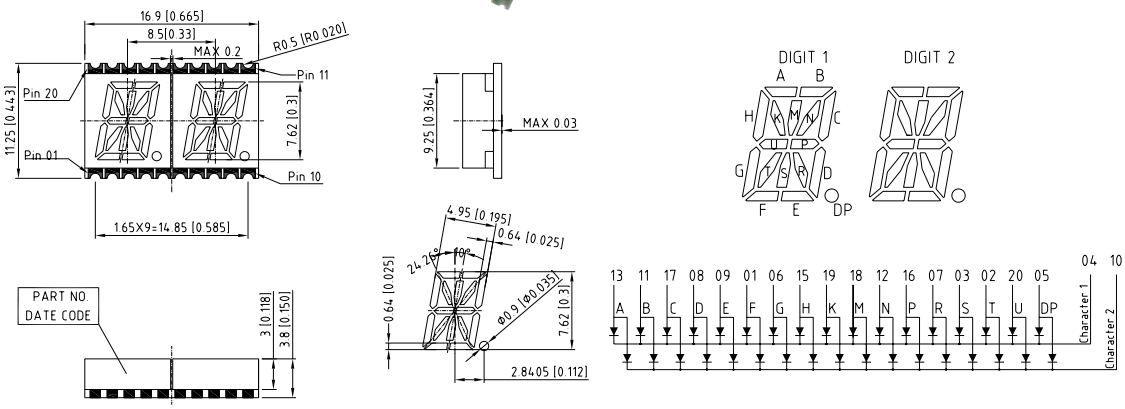
10.16mm (.4")
Dual-In-Line
.75" H x .36" W x .15" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTP-4824CKD-P	Hyper Red	639	Common Anode	1050
LTP-4824CKR-P	Super Red	631		1050
LTP-4824CKF-P	Orange	605		1050
LTP-4824CKS-P	Yellow	587		1050
LTP-4824CKG-P	Yellow Green	572		1050

Alphanumeric Display_SMD Type

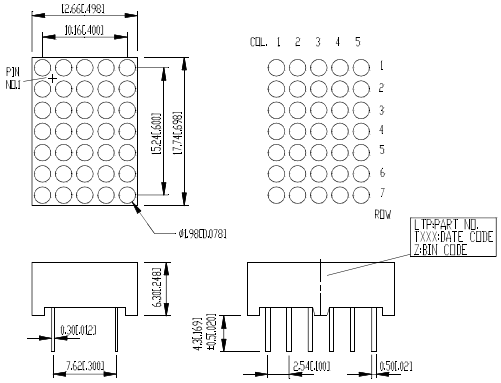
7.62mm (.3")
Dual-In-Line
.44" H x .67" W x .15" D

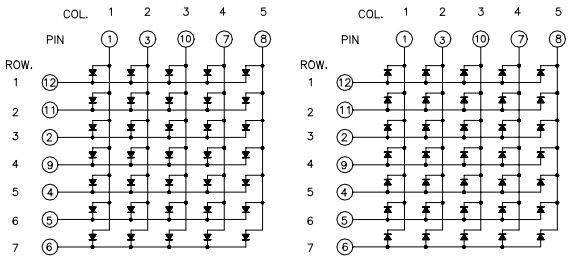


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I_F=1mA (µcd)
LTP-3363CKD-P	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTP-3363CKR-P	Super Red	631		650
LTP-3363CKF-P	Orange	605		650
LTP-3363CKS-P	Yellow	587		650
LTP-3363CKG-P	Yellow Green	572		650

Dot Matrix_5X7 Single Color

17.74mm (2 ϕ)
Dual-In-Line
.7" H x .5" W x .25" D

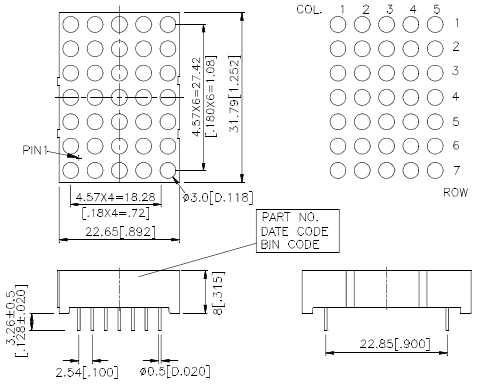


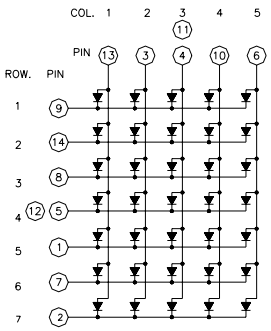


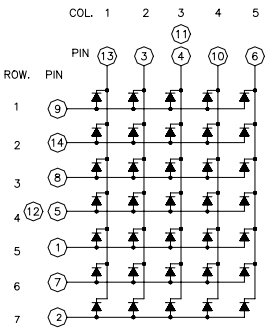
Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (μcd)
LTP-747KD	Hyper Red	639		
LTP-747KR	Super Red	631		
LTP-747KF	Orange	605	Anode Column, Cathode Row	2300
LTP-747KS	Yellow	587		
LTP-747KG	Yellow Green	572		
LTP-757KD	Hyper Red	639		
LTP-757KR	Super Red	631		
LTP-757KF	Orange	605	Cathode Column, Anode Row	2300
LTP-757KS	Yellow	587		
LTP-757KG	Yellow Green	572		

Dot Matrix_5X7 Single Color

31.79mm (3 ϕ)
Dual-In-Line
1.25" H x .9" W x .31" D



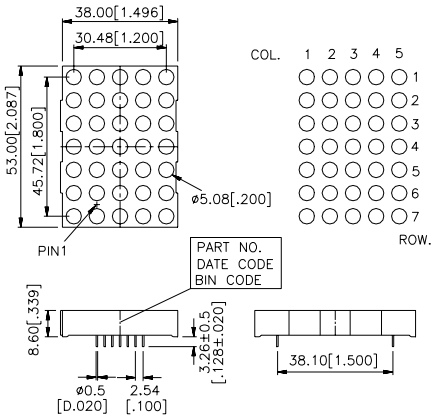


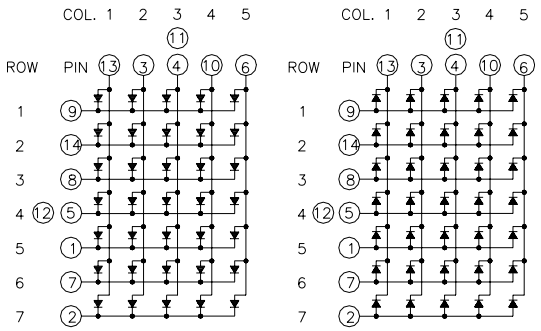


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-1457KD	Hyper Red	639		
LTP-1457KR	Super Red	631		
LTP-1457KF	Orange	605	Anode Column, Cathode Row	4500
LTP-1457KS	Yellow	587		
LTP-1457KG	Yellow Green	572		
LTP-1557KD	Hyper Red	639		
LTP-1557KR	Super Red	631		
LTP-1557KF	Orange	605	Cathode Column, Anode Row	4500
LTP-1557KS	Yellow	587		
LTP-1557KG	Yellow Green	572		
LTP-1557TBE	Blue	470	Cathode Column, Anode Row	1350@I_p=10mA

Dot Matrix_5X7 Single Color

53mm (5φ)
Dual-In-Line
2.1" H x 1.5" W x .34" D

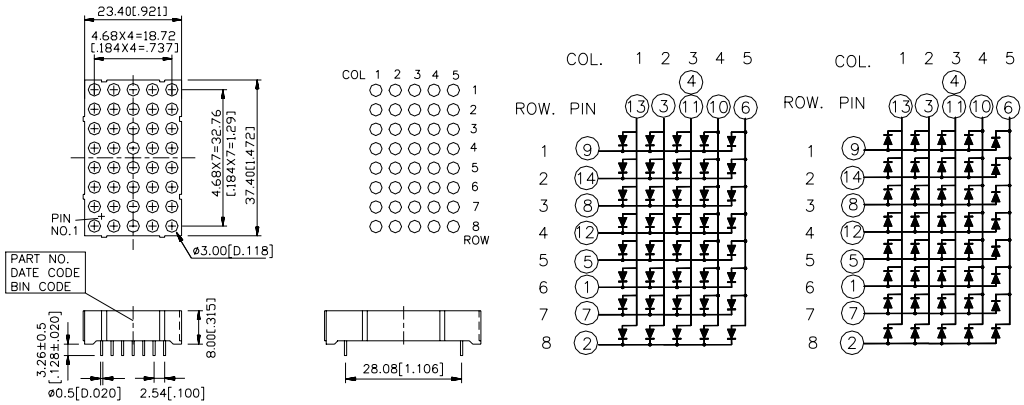




Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-2057AKA	Super Orange	615	Anode Column, Cathode Row	4600
LTP-2057AKY	Amber Yellow	592		4600
LTP-2057AKR	Super Red	531		3500
LTP-2157AKA	Super Orange	615	Cathode Column, Anode Row	4600
LTP-2157AKY	Amber Yellow	592		4600
LTP-2157AKR	Super Red	531		3500

Dot Matrix_5X8 Single Color

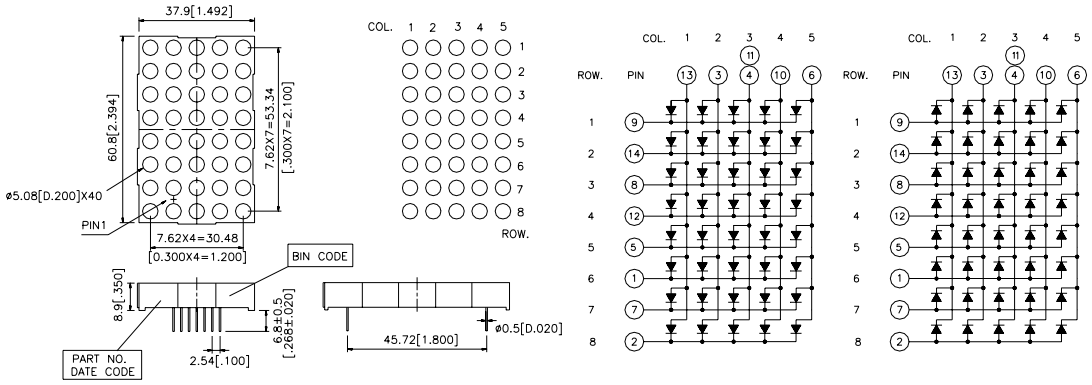
37.4mm (3ϕ)
Dual-In-Line
1.47" H x .9" W x .31" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-14058AKD	Hyper Red	639	Anode Column, Cathode Row	4500
LTP-14058AKR	Super Red	631		
LTP-14058AKF	Orange	605		
LTP-14058AKS	Yellow	587		
LTP-14058AKG	Yellow Green	572		
LTP-14158AKD	Hyper Red	639	Cathode Column, Anode Row	4500
LTP-14158AKR	Super Red	631		
LTP-14158AKF	Orange	605		
LTP-14158AKS	Yellow	587		
LTP-14158AKG	Yellow Green	572		

Dot Matrix_5X8 Single Color

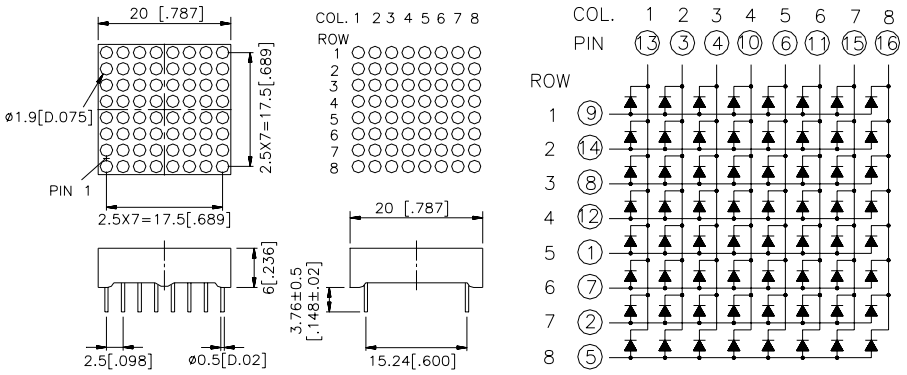
60.8mm (5 ϕ)
Dual-In-Line
2.4" H x 1.5" W x .35" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-2058AKD	Hyper Red	639	Anode Column, Cathode Row	4910
LTP-2058AKR	Super Red	631		
LTP-2058AKF	Orange	605		
LTP-2058AKS	Yellow	587		
LTP-2058AKG	Yellow Green	572		
LTP-2158AKD	Hyper Red	639	Cathode Column, Anode Row	4910
LTP-2158AKR	Super Red	631		
LTP-2158AKF	Orange	605		
LTP-2158AKS	Yellow	587		
LTP-2158AKG	Yellow Green	572		

Dot Matrix_8X8 Single Color

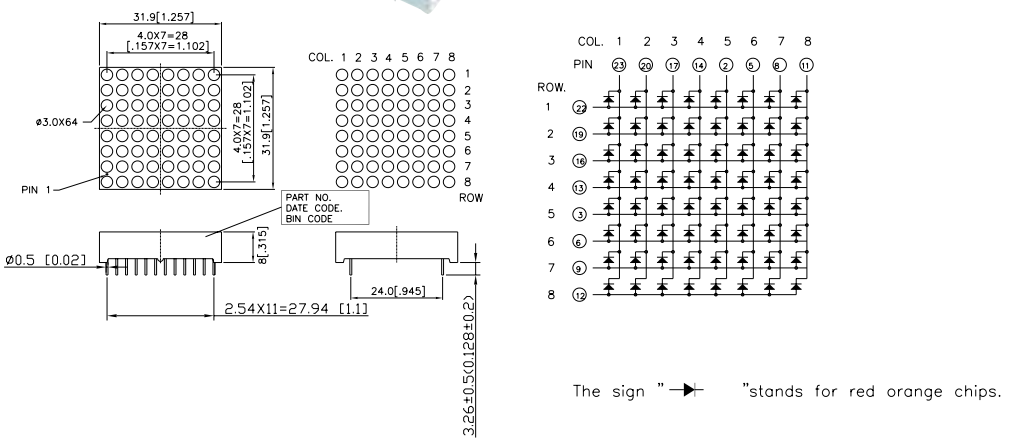
20mm (1.9ϕ)
Dual-In-Line
.8" H x .8" W x .24" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-7188KD	Hyper Red	639		
LTP-7188KR	Super Red	631		
LTP-7188KF	Orange	605	Anode Row, Cathode Column	2300
LTP-7188KS	Yellow	587		
LTP-7188KG	Yellow Green	572		

Dot Matrix_8X8 Single Color

48mm (5ϕ)
Dual-In-Line
1.26" H x 1.26" W x .32" D

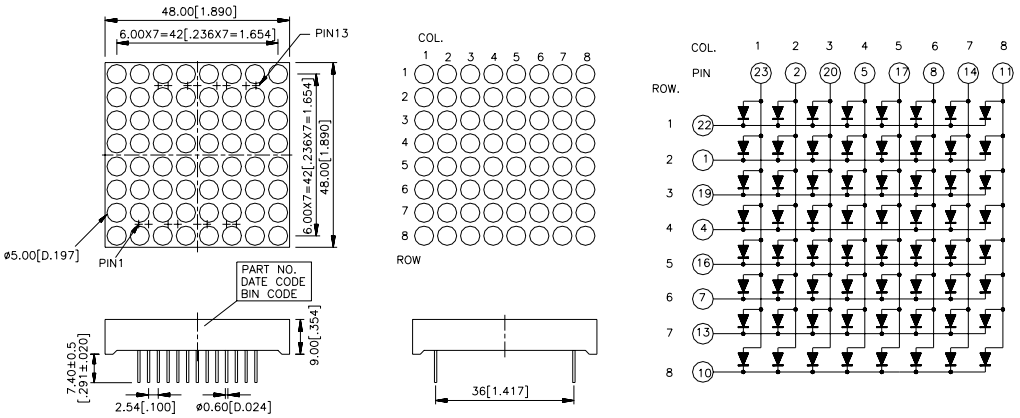


The sign "▶|" stands for red orange chips.

Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-12788KD	Hyper Red	639		
LTP-12788KR	Super Red	631		
LTP-12788KF	Orange	605	Anode Row, Cathode Column	2300
LTP-12788KS	Yellow	587		
LTP-12788KG	Yellow Green	572		

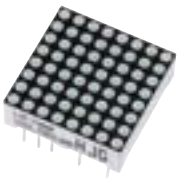
Dot Matrix_8X8 Single Color

48mm (5ϕ)
Dual-In-Line
1.9" H x 1.9" W x .35" D

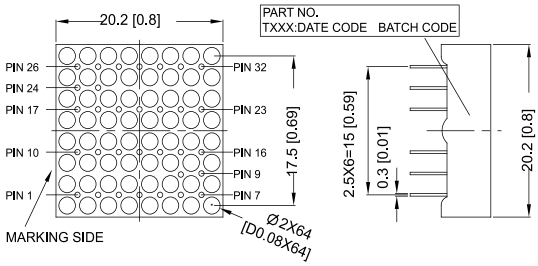


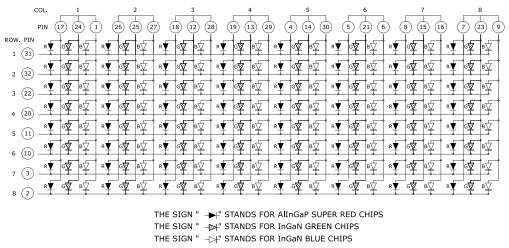
Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=32mA 1/16 Duty (µcd)
LTP-18088KD	Hyper Red	639	Anode Column, Cathode Row	4910
LTP-18088KR	Super Red	631		
LTP-18088KF	Orange	605		
LTP-18088KS	Yellow	587		
LTP-18088KG	Yellow Green	572		

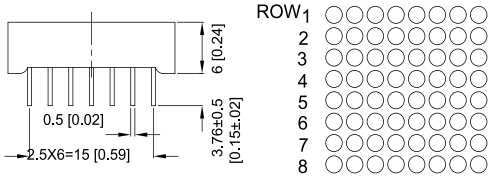
Dot Matrix_8X8 Multi Color

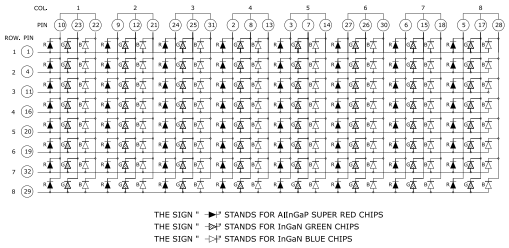


20.2mm (2.0ϕ)
Multi-In-Line
.8" H x .8" W x .24" D





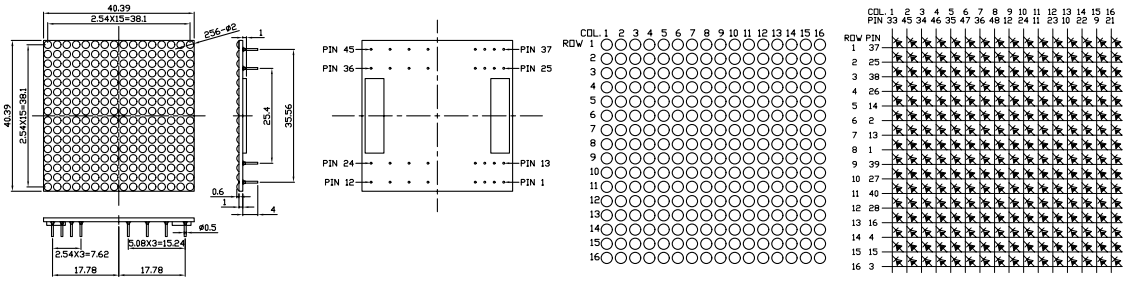




Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=10mA (μcd)
LTP-7488SF	Super Red	631	Anode Column, Cathode Row	9653
	True Green	525		28000
	Blue	470		8500
LTP-7588SF	Super Red	631	Cathode Column, Anode Row	9653
	True Green	525		28000
	Blue	470		8500

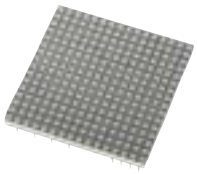
Dot Matrix_16X16 Single Color

40mm (2.0ϕ)
Multi-In-Line
1.59" H x 1.59" W x .07" D

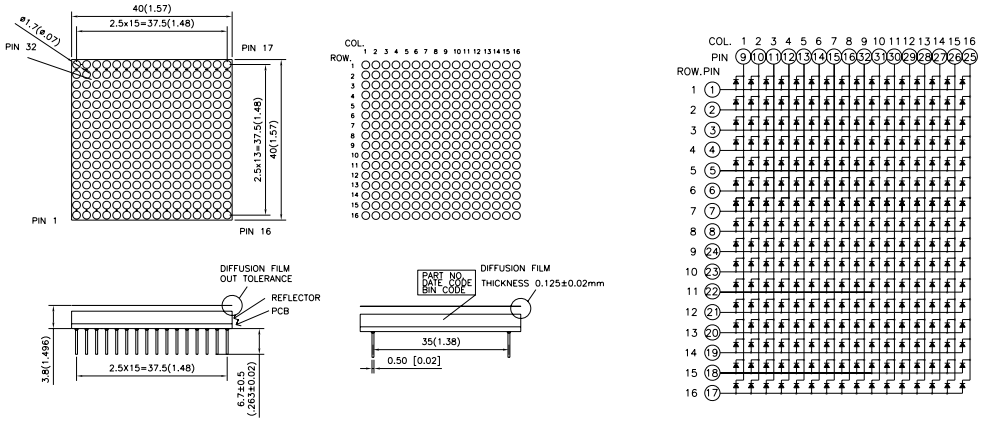


Part No.	Color	λ_d(nm)	Description	Typ.Iv/Dot@I_p=28mA 1/16 Duty (μcd)
LTP-158FFKF	Orange	605	Anode Row, Cathode Column	1960

Dot Matrix_16X16 Single Color

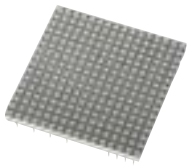


40mm (1.7ϕ)
Dual-In-Line
1.57" H x 1.57" W x .14" D

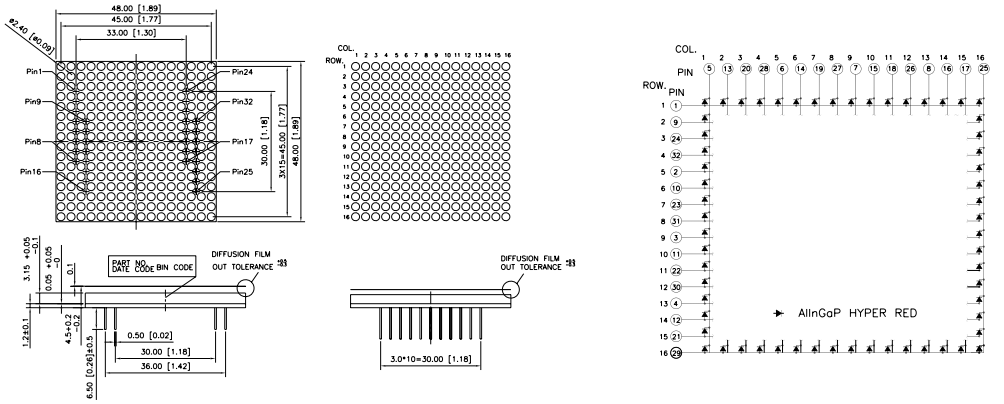


Part No.	Color	λ_d(nm)	Description	Typ.Iv/Dot@I_p=25mA 1/16 Duty (μcd)
LTP-159FFKF	Orange	605	Anode Row, Cathode Column	1240

Dot Matrix_16X16 Single Color



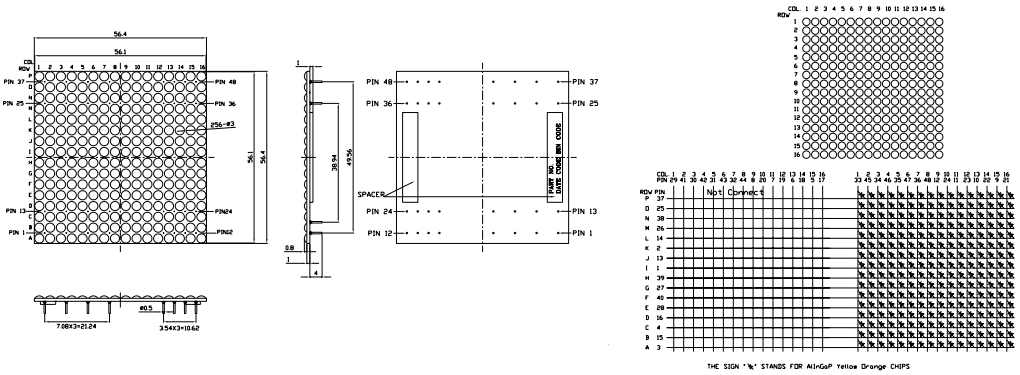
48mm (2.4ϕ)
Mulit-In-Line
1.89" H x 1.89" W x .17" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=60mA 1/16 Duty (µcd)
LTP-185FFMKD-J	Hyper Red	639	Anode Row, Cathode Column	1500

Dot Matrix_16X16 Single Color

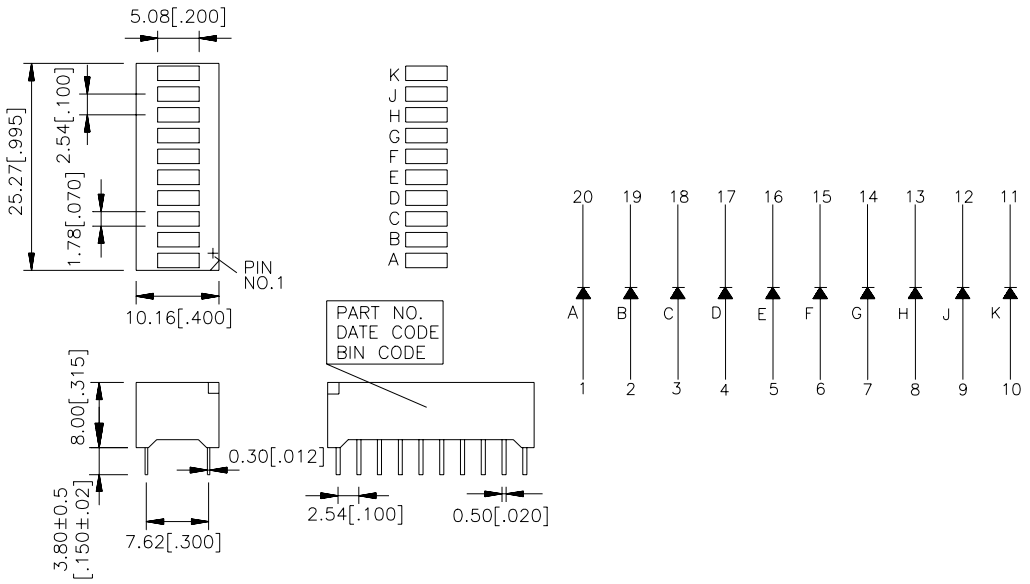
56.4mm (3.0ϕ)
Dual-In-Line
2.22" H x 2.22" W x .07" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_p=35mA 1/16 Duty (µcd)
LTP-229FFKF	Orange	605	Anode Row, Cathode Column	2300µcd

Light Bar Array

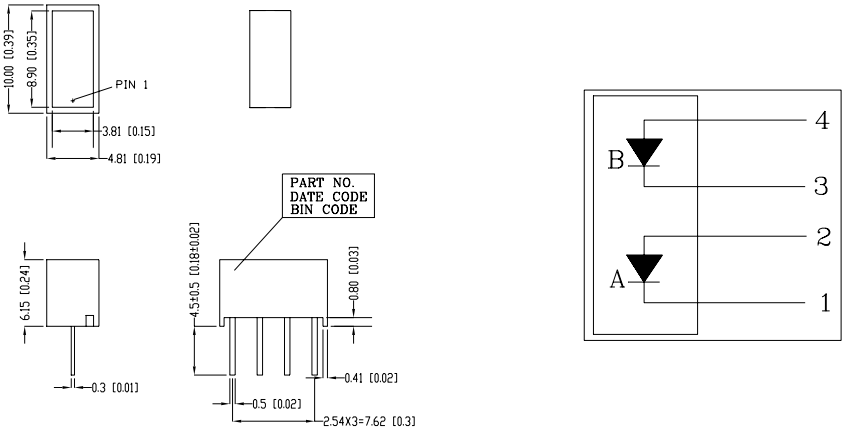
20 Pin DIP
.100" Centers
.96" L x .40" W x .32" H



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTA-1000KD	Hyper Red	639	Universal Rectangular Bar	12.3
LTA-1000KR	Super Red	631		12.3
LTA-1000KF	Orange	605		16
LTA-1000KS	Yellow Green	587		16.4
LTA-1000KG	Yellow Green	572		7.6

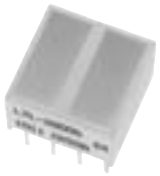
Light Bar Array

4 Pin DIP
.39" H x .19" W x .24" D

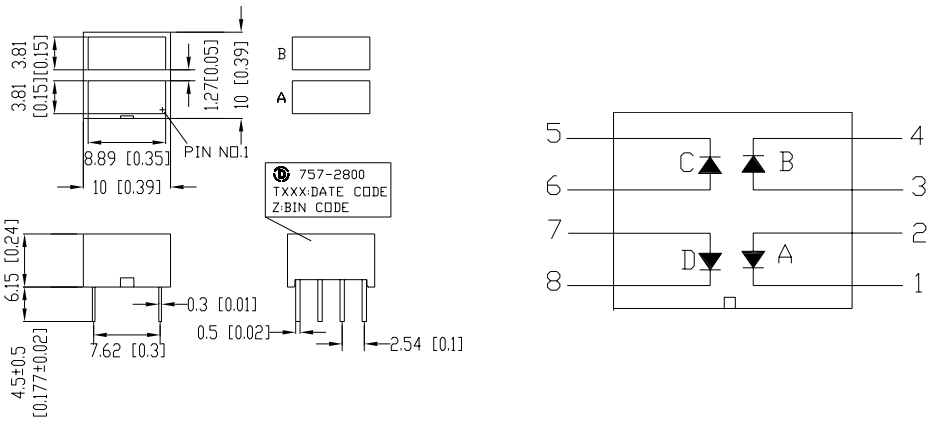


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-2300HR	Red	623	Universal Rectangular Bar	4.2
LTL-2400Y	Yellow	588		4.2
LTL-2500G	Yellow Green	569		4.2

Light Bar Array



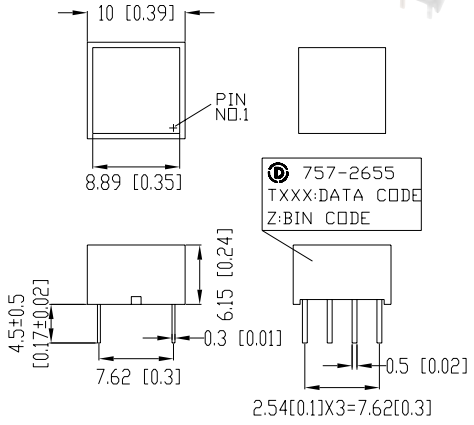
8 Pin DIP
.2" Centers
.39" H x .39" W x .24" D

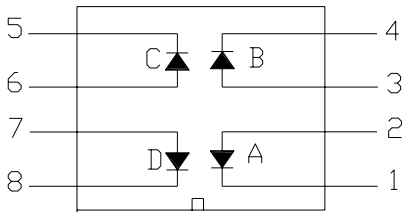


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-2800G	Yellow Green	569	Universal Rectangular Bar	4.2

Light Bar Array

8 Pin DIP
.39" H x .39" W x .24" D

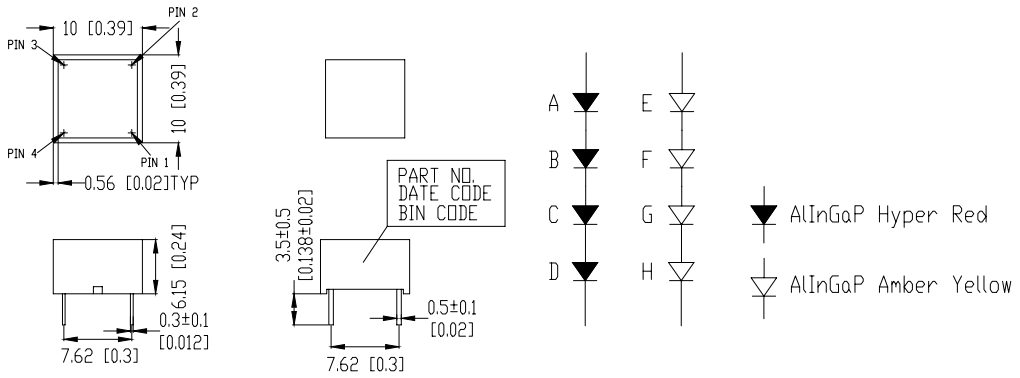




Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-2655JD	Hyper Red	639	Universal Rectangular Bar	1.8
LTL-2655HR	Red	623		8
LTL-2755Y	Yellow	588		8
LTL-2855G	Yellow Green	569		8

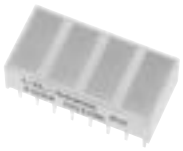
Light Bar Array

4 Pin DIP
.05" Centers
.39" H x .19" W x .24" D

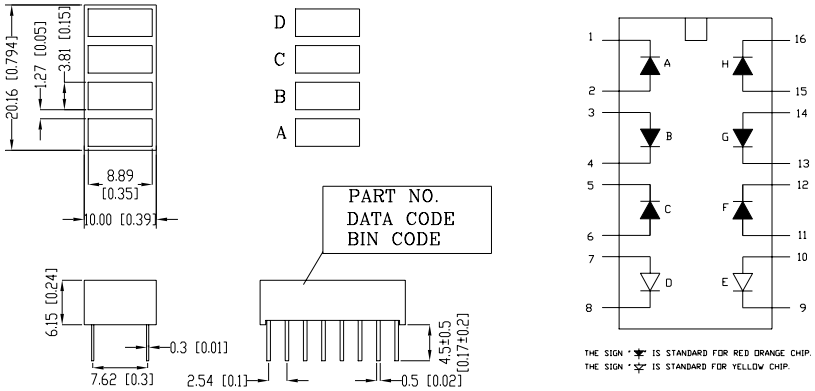


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-4201M	Red	638	Universal Rectangular Bar	70
	Amber Yellow	592		110

Light Bar Array



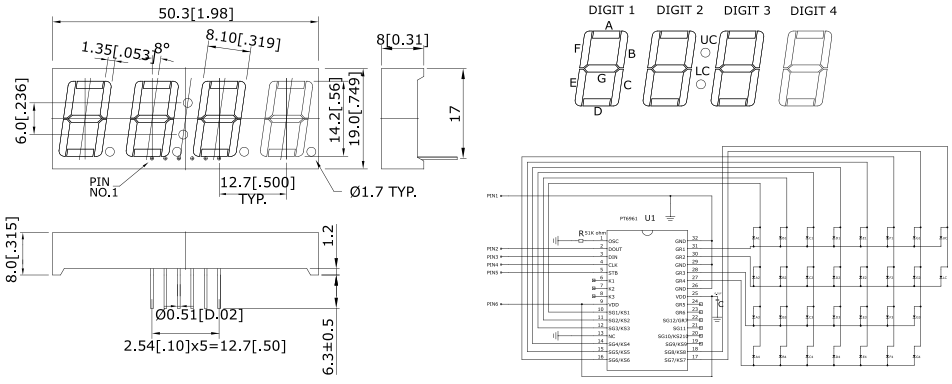
16 Pin DIP
.2" Centers
.79" H x .39" W x .24" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-2720Y	Yellow	588	Universal Rectangular Bar	4.2
LTL-2820G	Yellow Green	569		4.2
LTL-2620M	Red Orange	621		2
	Yellow	588		2

LED Display Module

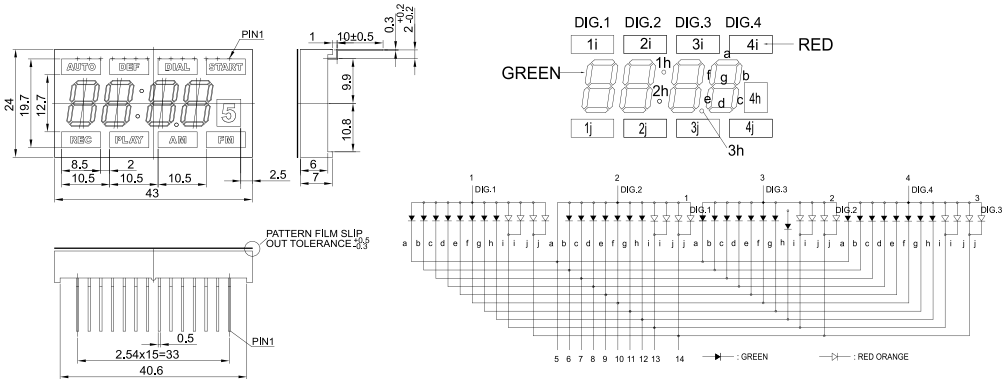
Epoxy Type
14.2mm (.56")
Single-In-Line
.75" H x 1.98" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Seg@I_F=10mA (µcd)	Forward Current I_F (mA)
LTM-0735G	Green	565	Multiplex with IC Driver	2200	10
LTM-0735SW	White	(0.294, 0.286)		118000	5

LED Display Module

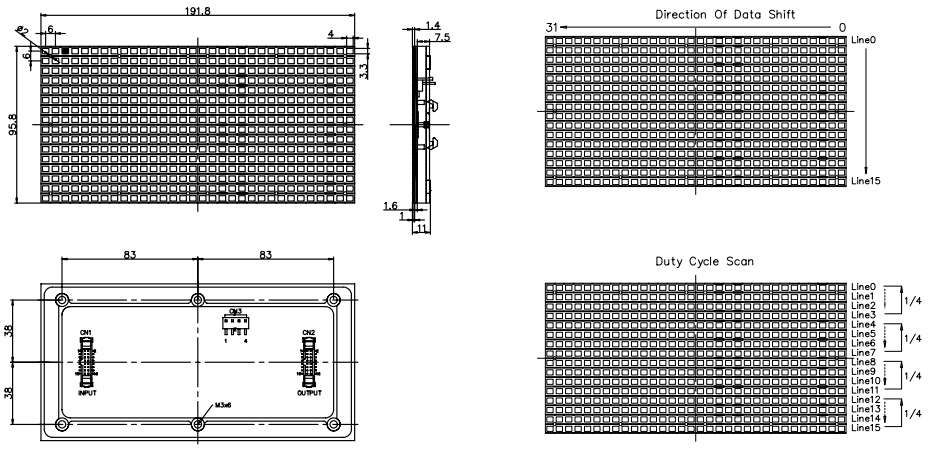
10.2mm (.4")
Single-In-Line
.94" H x 1.69" W x .27" D



Part No.	Color	λ_d (nm)	Description	I_F=25mA, 1/8 Duty (μcd)
LTM-1008M	Super Red	631	Multiplex Common Anode	5700
	Blue	470		5000

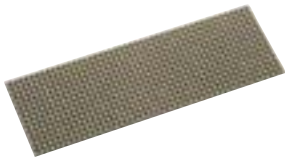
LED Display Module

16 x 32 Matrix
Pitch 6
3.77" H x 7.56" W x .43" D

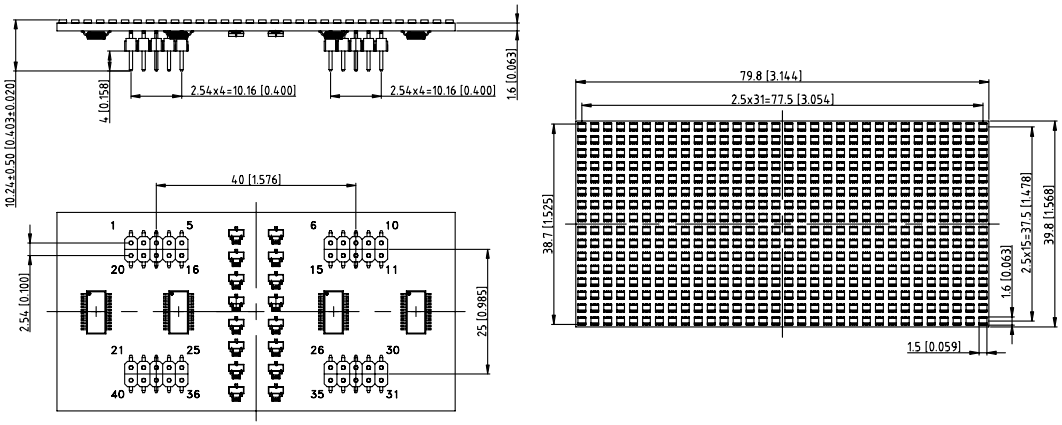


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I_F=20mA (mcd)
LTM-1524KS	Amber Yellow	595	Multiplex with IC Driver	2.4

LED Display Module



16 x 48 Matrix
Pitch 2.5
1.53" H x 4.72" W x .06" D



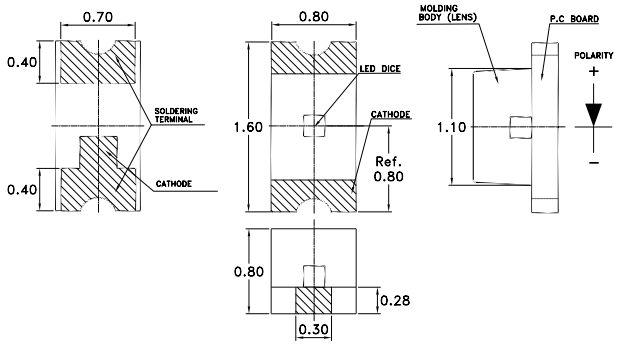
Part No.	Color	λ_d (nm)	Description	Typ.Iv/Seg@I_F=10mA (mcd)
LTM-1302SM	Super Red	631	Multiplex with IC Driver	10
	Yellow Green	571		6.4

Automotive LED

0603 Chip LED

Interior

1.6 x 0.8 x 0.55 mm

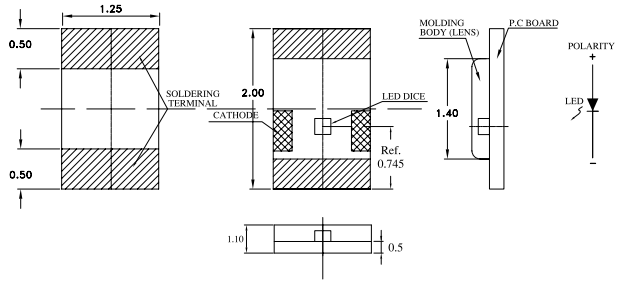


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-C191KEKT	Red	624	112	130	2.0	20	450	25	95	-40~85
LTSA-C191KSKT	Yellow	590	112	130	2.0	20	450	25	95	-40~85
LTSA-C191TGK5	True Green	525	112	130	3.0	5	370	20	95	-40~85
LTSA-C191TBK5	Blue	470	56	130	3.0	5	370	10	95	-40~85
LTSA-W191DBS5	Cool White	(0.303, 0.317)	180	130	3.0	5	370	20	95	-40~85

0805 Chip LED

Interior

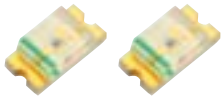
2.0 x 1.25 x 1.1 mm



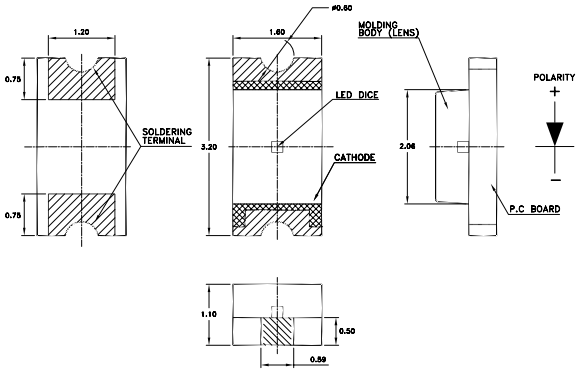
Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-C170KEKT	Red	624	112	130	2.0	20	450	25	95	-40~85
LTSA-C170KSKT	Yellow	590	112	130	2.0	20	450	25	95	-40~85
LTSA-C170TGKT	True Green	525	230	130	2.0	20	370	20	95	-40~85
LTSA-C170TBKT	Blue	470	90	130	2.0	20	370	20	95	-40~85
LTSA-W170ZTBAT-WT	Ice Blue	(0.201, 0.290)	450	130	3.2	20	370	20	95	-40~85
LTSA-W170DBC5	Cool White	(0.297, 0.310)	180	130	3.0	5	370	20	95	-40~85

1206 Chip LED

Interior



3.2 x 0.8 x 1.1 mm

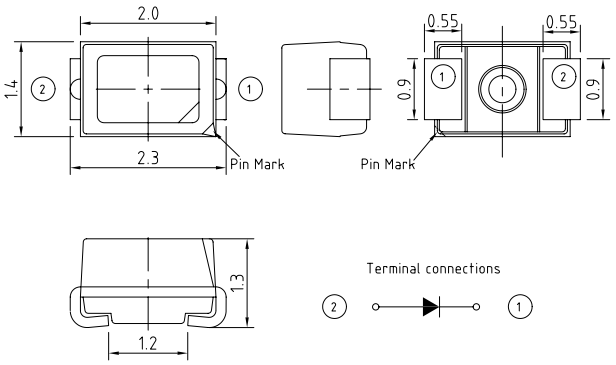


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-C150KEKT	Red	624	112	130	2.0	20	450	25	95	-40~85
LTSA-C150KSKT	Yellow	590	112	130	2.0	20	450	25	95	-40~85
LTSA-C150TGK5	True Green	525	180	130	3.0	5	370	10	95	-40~85
LTSA-C150TBK5	Blue	470	56	130	3.0	5	370	20	95	-40~85
LTSA-W150TBA5	Bright Cyan	(0.226, 0.314)	355	130	3.0	5	370	10	95	-40~85
LTSA-C150TBV5	Soft Blue	(0.260, 0.227)	224	130	3.0	5	370	10	95	-40~85
LTSA-C150TBW5	Cool White	(0.299, 0.298)	315	130	3.0	5	370	10	95	-40~85

Mini Top LED

Interior

2.3x1.4x1.3 mm



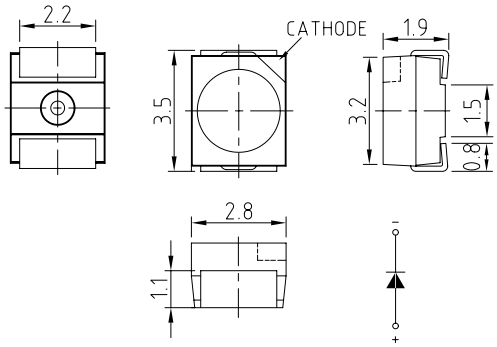
Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-M67KKEWT	Red	624	180	120	2.0	20	200	30	115	-40~100
LTSA-M67KKSWT	Yellow	590	180	120	2.0	20	200	30	115	-40~100
LTSA-M67KTGWT	True Green	525	1400	120	3.0	20	180	30	115	-40~100
LTSA-M67KTBWT	Blue	470	224	120	3.0	20	180	30	115	-40~100
LTSA-M67KTHET	Ice Blue	(0.190, 0.276)	1800	120	3.0	20	180	30	115	-40~100
LTSA-M67KTWET	Cool White	(0.300, 0.300)	1800	120	3.0	20	180	30	115	-40~100

New

PLCC2 Top LED

Interior

3.5 x 2.8 x 1.9 mm

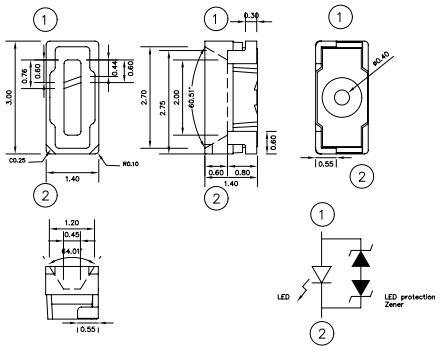


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-T680VEWT	Red	624	2800	120	2.6	50	110	50	115	-40~100
LTSA-T680KEWT	Red	624	180	120	2.0	20	250	30	115	-40~100
LTSA-T680VSWT	Yellow	590	2800	120	2.6	50	110	50	115	-40~100
LTSA-T680KSWT	Yellow	590	280	120	2.0	20	250	30	115	-40~100
LTSA-T680ZGWT-3	True Green	525	355	120	3.3	10	250	30	115	-40~100
LTSA-T680ZBWT-3	Blue	470	180	120	3.3	10	120	30	115	-40~100
LTSA-T680ZHET	Ice Blue	(0.190, 0.276)	1400	120	3.0	20	120	30	115	-40~100
LTSA-T680ZWET	Cool White	(0.320, 0.313)	2240	120	3.0	20	120	30	115	-40~100

Side LED_S089

Interior

3.0x1.4x0.6 mm

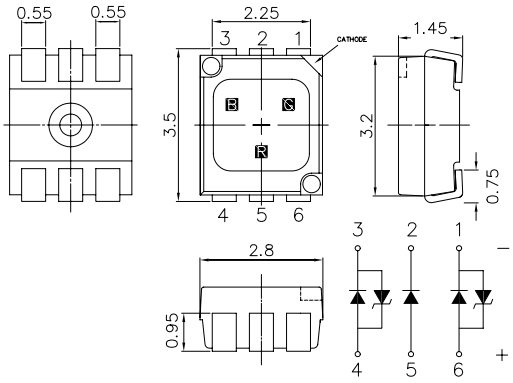


Part No.	Color	CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-S089ZHET	Ice Blue	(0.190, 0.276)	5	120	3.1	20	260	30	110	-40~100
LTSA-S089ZWET	Cool White	(0.316, 0.333)	9	120	3.0	20	260	50	110	-40~100

Multi Color 3-in-1 Top LED_G683

Interior

3.5x2.8x1.45 mm

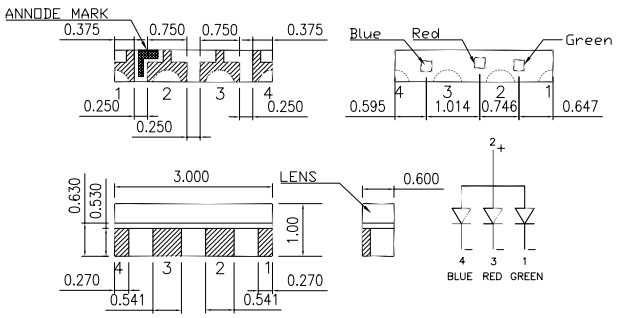


Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-G683ZBEGWU	Red	624	560	120	2.0	20	170	30	115	-40~110
	True Green	530	1400		3.0	20	170	30	125	
	Blue	470	280		3.0	20	170	30	125	

Multi Color 3-in-1 Side LED_S33

Interior

3.0x1.0x0.6 mm

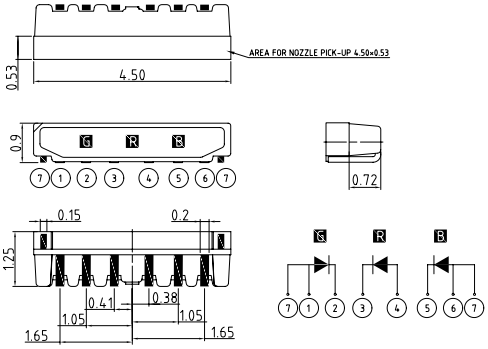


Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-S33GBEGK5	Red	624	180	130	2.0	5	450	20	95	-40~85
	True Green	530	180	130	2.8	5	370	20	95	
	Blue	470	112	130	2.8	5	370	20	95	

Multi Color 3-in-1 Side LED_S008

Interior

4.5 x 1.25 x 0.8 mm

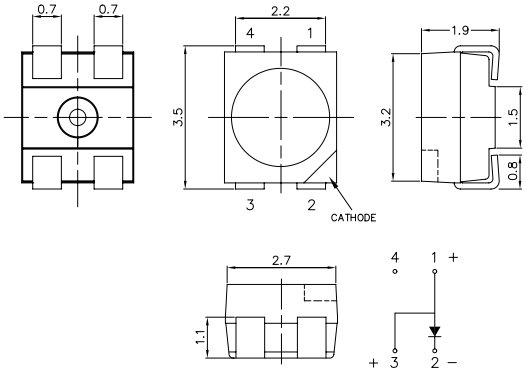


Part No.	Color	λ_d(nm)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-S008RGBWA	Red	624	1.5	120	2.0	20	220	30	125	-40~100
	True Green	530	0.5	120	3.0	20	220	20	125	
	Blue	470	0.5	120	3.0	20	220	20	125	

PLCC4 Top LED

Rear Signal Interior

3.5 x 2.8 x 1.9 mm

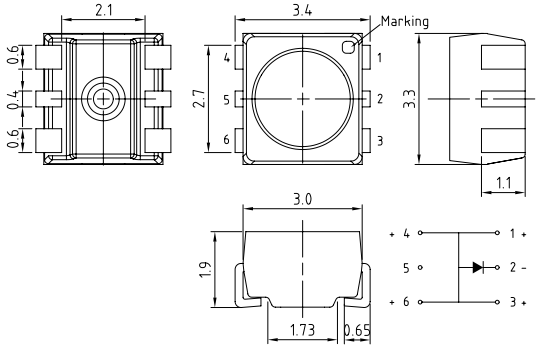


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-E67RVEWT	Red	624	2800	120	2.2	50	110	70	115	-40~100
LTSA-E67RVAWT	Amber	615	2800	120	2.2	50	110	70	115	-40~100
LTSA-E67RVSWT	Yellow	590	2800	120	2.2	50	110	70	115	-40~100
LTSA-E67RZHET	Ice Blue	(0.190, 0.276)	1800	120	3.0	15	120	30	115	-40~100
LTSA-E67RZWET	Cool White	(0.320, 0.313)	4500	120	3.2	50	120	80	115	-40~100

PLCC6 Top LED

Front Rear Signal Interior

3.4 x 3.3 x 1.9 mm

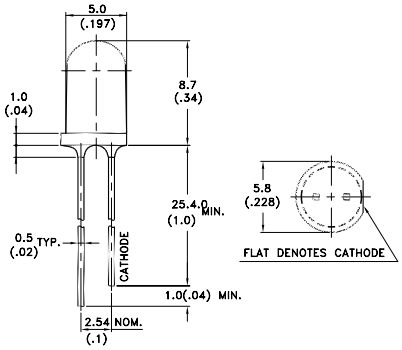


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTSA-G6SPVEKT	Red	624	5600	120	2.2	140	30	200	125	-40~110
LTSA-G6SPVAKT	Amber	615	7100	120	2.2	140	30	200	125	-40~110
LTSA-G6SPVSKT	Yellow	590	5600	120	2.2	140	30	200	125	-40~110
LTSA-G6SVUWET	Cool White	(0.320, 0.313)	11200	120	3.2	140	25	200	125	-40~110
LTSA-G6SVUAET	PC Amber	(0.570, 0.420)	4500	120	3.2	140	25	200	125	-40~110

5mm Through Hole Lamp

Rear Signal

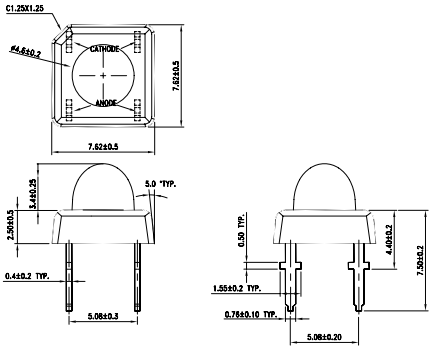
5mm round, T1 $^3/_4$



Part No.	Color	λ_d(nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTLA2R3EW3K	Red	624	5500	30	2.0	20	320	50	125	-40~100
LTLA2H3VYY1K	Yellow	590	12000	30	2.0	20	320	50	125	-40~100
LTLA2R3YW3K	Yellow	590	5500	30	2.0	20	320	50	125	-40~100

25° Piranha

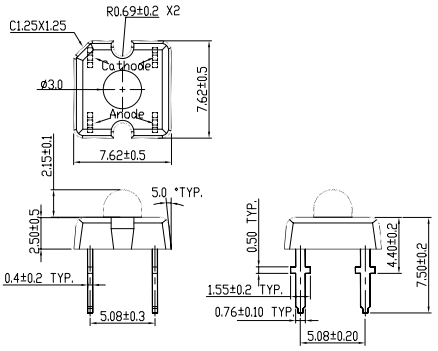
Rear Signal



Part No.	Color	λ_d(nm)	Typ. Luminous Flux Φv (lm)	View Angle 2θ 1/2	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTLA916VAJ2K	Amber	615	8	25	2.2	70	70	70	125	-40~110
LTLA916VYJ2K	Yellow	590	8	25	2.2	70	70	70	125	-40~110

30° Piranha

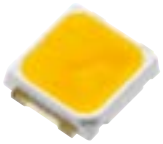
Rear Signal



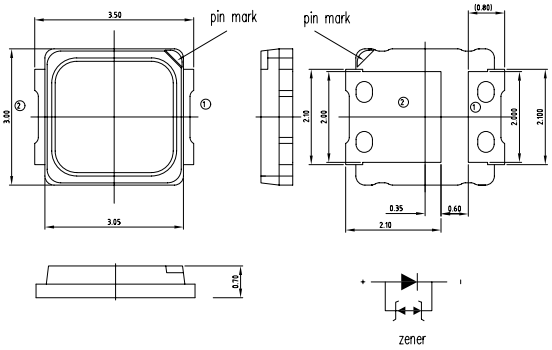
Part No.	Color	λ_d(nm)	Typ. Luminous Flux Φv (lm)	View Angle 2θ 1/2	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTLA918VEJ3K	Red	624	6	30	2.2	50	70	50	110	-40~100
LTLA918VYJ3K	Yellow	590	6	30	2.2	50	70	50	110	-40~100

High Power LED_P3030

Front Rear Signal



3.5 x 3.0 x 0.7 mm

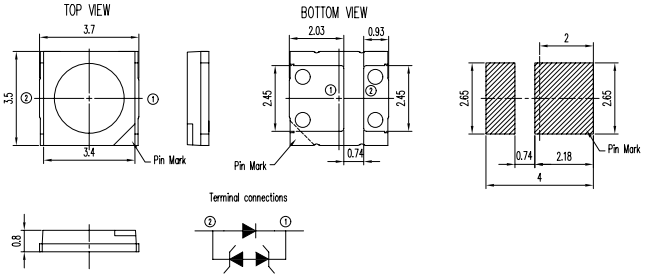


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTPA-P3030CNPKE	Red	624	40	120	2.2	350	10	400	125	-40~100
LTPA-P3030CNPTG	True Green	525	65	120	3.4	350	10	400	125	-40~100
LTPA-P3030ANPTB	Blue	470	30	120	3.2	350	10	500	125	-40~100
LTPA-P3030CWP57	Cool White	(0.325, 0.340)	140	120	3.2	350	10	400	125	-40~100
LTPA-P3030CBPPA	PC Amber	(0.570, 0.420)	100	120	3.2	350	10	400	125	-40~100

High Power LED_P35

Front Rear Signal

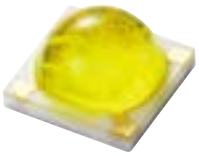
3.5 x 3.7 x 0.8 mm



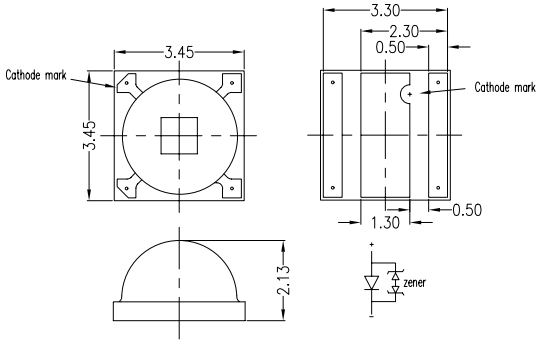
Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTPA-P35PUDNPKE (Gold Plating)	Red	620	50	120	2.2	350	10	400	125	-40~100
LTPA-P3535CWP	Cool White	(0.325, 0.340)	160	120	3.2	350	10	500	125	-40~100
LTPA-P35PUCWP (Gold Plating)	Cool White	(0.325, 0.340)	110	120	3.2	350	10	500	125	-40~100
LTPA-P3535CBPPA	PC Amber	(0.570, 0.420)	140	120	3.2	350	10	500	125	-40~100
LTPA-P35PUCBPPA (Gold Plating)	PC Amber	(0.570, 0.420)	80	120	3.2	350	10	500	125	-40~100

High Power LED_C35

Front Rear Signal



3.45 x 3.45 x 2.13 mm

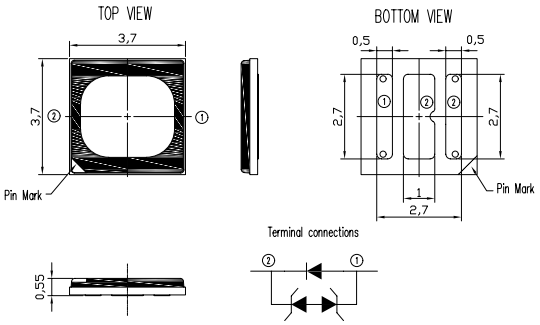


Part No.	Color	λ_d(nm)/ CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTPA-C3535CNPKE	Red	624	65	130	2.2	350	15	500	125	-40~125
LTPA-C3535CNPTG	True Green	525	100	130	3.4	350	15	500	125	-40~125
LTPA-C3535ANPTB	Blue	470	45	130	3.2	350	15	500	125	-40~125
LTPA-C3535AWP	Cool White	(0.325, 0.340)	140	118	3.2	350	9.5	700	125	-40~125
LTPA-C3535BWP57	Cool White	(0.325, 0.340)	130	118	3.2	350	15	500	125	-40~125
LTPA-C35NUAWP	Cool White	(0.325, 0.340)	120	118	3.2	350	9.5	700	125	-40~125
LTPA-C3535BBPPA	PC Amber	(0.570, 0.420)	110	118	3.2	350	15	500	125	-40~125
LTPA-C35NUBBPPA	PC Amber	(0.570, 0.420)	85	118	3.2	350	15	500	125	-40~125

High Power LED _S38

Front Signal

3.75 x 3.75 x 0.55 mm



Part No.	Color	CIE(x,y)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max. Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTPA-S38FUMWE	Cool White	(0.325, 0.340)	240	120	3.0	700	5.5	1200	150	-40~125
LTPA-S38FUMBPPA	PC Amber	(0.570, 0.420)	80	120	3.0	350	5.5	700	150	-40~125

New

High Power LED_C1915

Front

1.9 x 1.5 x 0.75 mm

Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F(mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max.Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTPA-C1915	5600K	230	120	3.4	700	5	1200	150	-40~125

Under Development

High Intensity Chip Array

Front

3.1 x 3.8 x 0.75 mm

4.2 x 3.8 x 0.75 mm

5.3 x 3.8 x 0.75 mm

6.4 x 3.8 x 0.75 mm

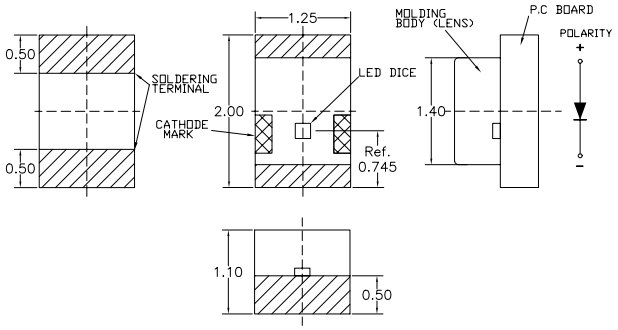
Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F(V)	Forward Current I_F(mA)	Thermal Resistance R_{th}(j-s) (°C/W)	Max.Forward Current I_F (mA)	Max. Junction Temperature Tj(°C)	Operating Temperature Range(°C)
LTPA-H2S3138	5600K	640	118	6.8	1000	1.6	1500	150	-40~125
LTPA-H3S4238	5600K	960	118	10.2	1000	1.3	1500	150	-40~125
LTPA-H4S5338	5600K	1280	118	13.6	1000	1.1	1500	150	-40~125
LTPA-H5S6438	5600K	1600	118	17.0	1000	0.9	1500	150	-40~125

Under Development

Signage LED

Chip LED Single Color

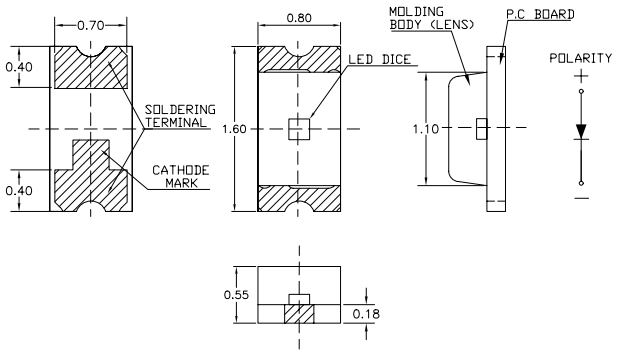
2.0 x 1.25 x 1.1 mm



Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-C170KSWT	Yellow	590	120	280	130	2	20
LTSN-C170DS	White	(0.31, 0.31)	280	710	130	3.3	20

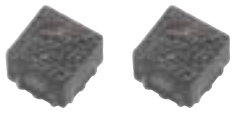
Chip LED Single Color

1.6 x 0.8 x 0.55 mm

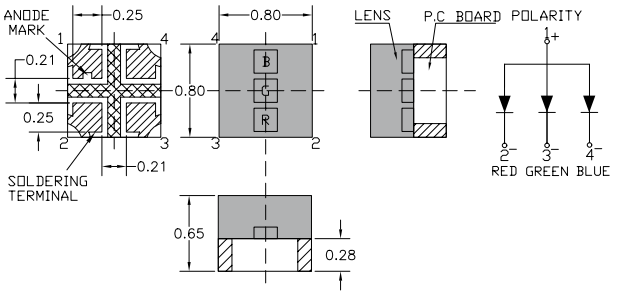


Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-C191KSKT	Yellow	590	112	224	130	2	20
LTSN-C191DS	White	(0.31, 0.31)	355	900	130	3.3	20

Chip LED Multi Color



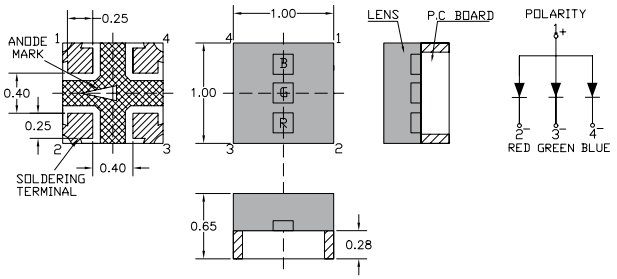
0.8 x 0.8 x 0.65 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-B68JEGBB6	Red	624	17.1	38.6	130	2	5
	True Green	525	80.2	180.5		3.3	
	Blue	470	9.5	32.2		3.3	

Chip LED Multi Color

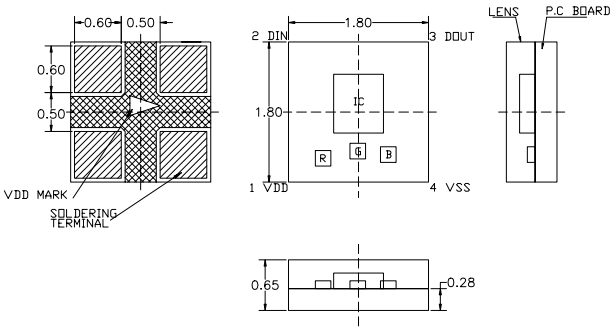
1.0 x 1.0 x 0.65 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-B32JEGBB6	Red	624	16.4	45	130	2	5
	True Green	525	53.3	180		3.3	
	Blue	470	13	44		3.3	

Chip LED Multi Color (IC Embedded)

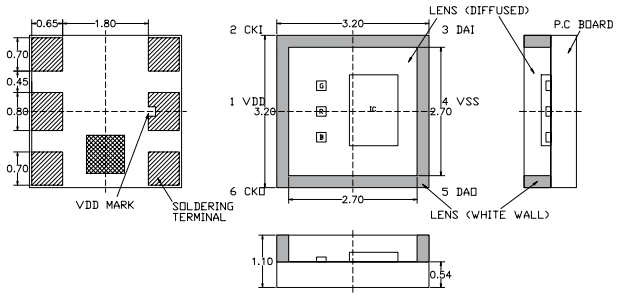
1.8 x 1.8 x 0.65 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-E263HEGBK	Red	624	280	1120	120	2	18
	True Green	525	180	710		3.3	
	Blue	470	71	280		3.3	

Chip LED Multi Color (IC Embedded)

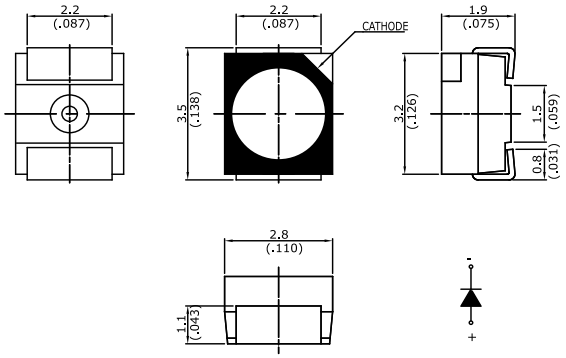
3.2 x 3.2 x 1.1 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-E363CEGBW	Red	624	165	675	120	2	14
	True Green	525	990	4000		3.3	13
	Blue	470	142	580		3.3	10

PLCC Single Color

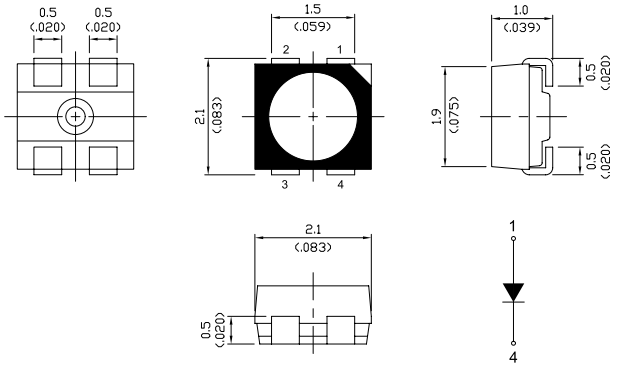
3.5 x 2.8 x 1.9 mm



Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTST-B680VEKT	Red	624	710	1400	120	2	20
LTST-B680VSKT	Yellow	589	900	1800	120	2	20
LTST-B680UGKT	True Green	525	900	1800	120	3.2	20
LTST-B680UWET	White	(0.31, 0.31)	1800	2800	120	3.2	20

PLCC Single Color

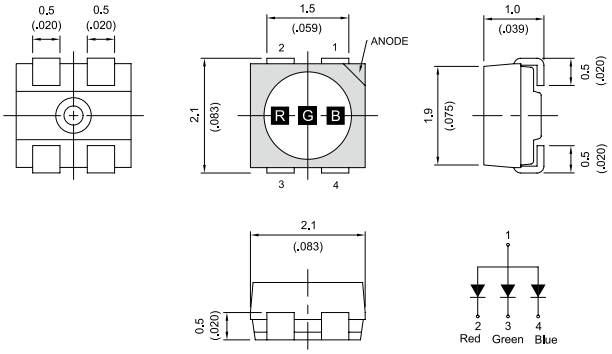
2.1 x 2.1 x 1.0 mm



Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-N211QSWT	Yellow	589	355	900	120	2	20
LTSN-N211VSWT	Yellow	589	710	1400	120	2	20
LTSN-N211UWET	White	(0.31, 0.31)	1500	2900	120	3.2	20

PLCC Multi Color

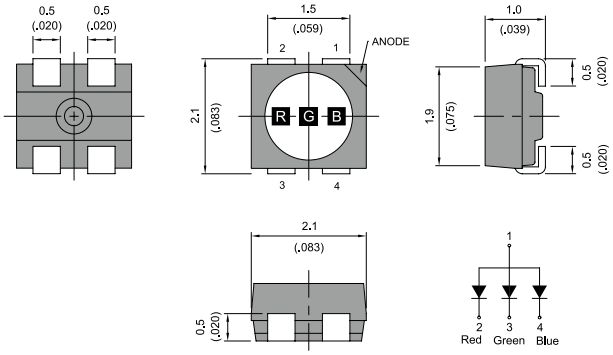
2.1 x 2.1 x 1.0 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-N213EGBW	Red	624	345	720	120	2	20
	True Green	525	280	570		3.2	5
	Blue	470	70	140		3.2	5

PLCC Multi Color

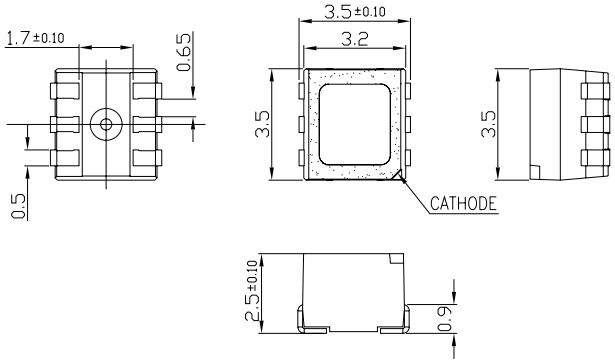
2.1 x 2.1 x 1.0 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-H213EGBW	Red	624	39	104	120	2	5
	True Green	525	124	288		3.2	5
	Blue	470	22	59		3.2	5

PLCC Multi Color

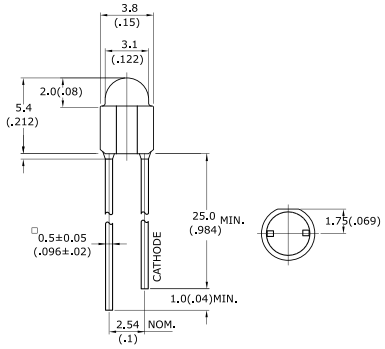
3.5 x 3.5 x 2.5 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTSN-D353EGBW	Red	624	560	1120	120	2	20
	True Green	525	1120	2240		3.2	20
	Blue	470	280	560		3.2	20

Through Hole Lamp_3mm

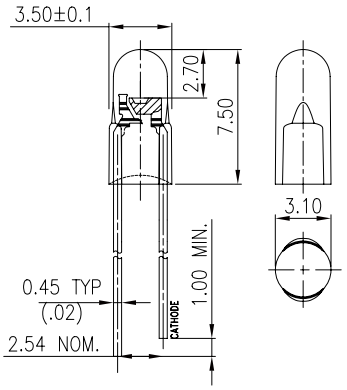
3mm Round



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage VF (V)
LTL17KET3KS	Red	Water Clear	624	2500	5500	30	2.1
LTL17KTGX3KS	True Green	Water Clear	525	5500	9300	30	3.2
LTL17KTBS3KS	Blue	Water Clear	470	1500	3200	30	3.2

Through Hole Lamp_3mm

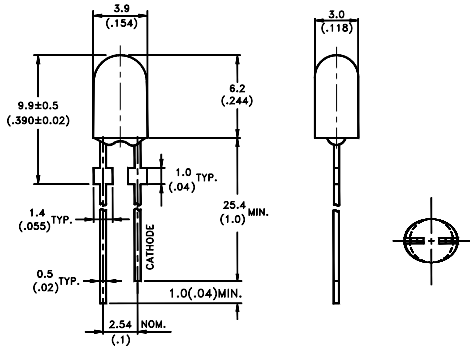
3mm Round



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage VF (V)	Forward Current IF (mA)
LTL1SHEW3KS	Red	Water Clear	625	4200	5000	30	2.1	20
LTL1SHER3D	Red	Red Diffused	624	1500	3200	30 (min.)	2.1	20
LTL1SHYW3KS	Yellow	Water Clear	590	4200	5000	30	2.1	20
LTL1SHTGV3DP	True Green	Green Diffused	525	7200	12000	35	3.2	20
LTL1SHTBN3DP	Blue	Water Clear	470	1500	2500	35	3.2	20

Through Hole Lamp_3mm

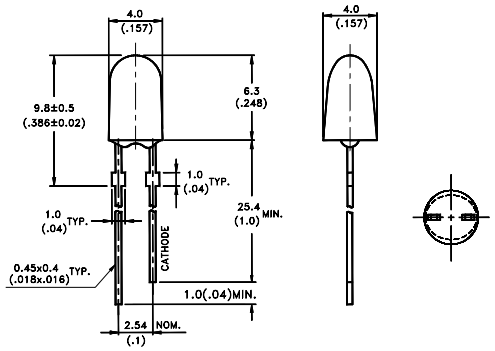
3mm Oval



Part No.	Color	Resin Color	λ_d (nm)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL3H3EPADS	Red	Red Diffused	624	1300	100/50	2.1	20
LTL3H3TGTADS	True Green	Green Diffused	525	3600	100/50	3.2	20
LTL3H3TBNADS	Blue	Blue Diffused	470	700	100/50	3.2	20

Through Hole Lamp_4mm

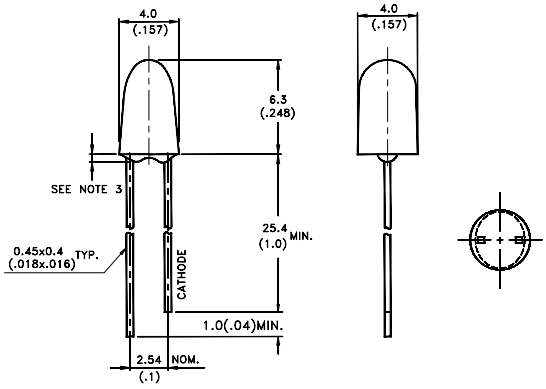
4mm Oval



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL4HMEPADS	Red	Red Diffused	624	520	1500	110/50	2.1	20
LTL4HMWSDS-A	Yellow	Yellow Diffused	590	680	1500	110/50	2.1	20
LTL4HMYSADS	Yellow	Yellow Diffused	590	950	2100	110/50	2.1	20
LTW4HMDVAJS	White	White Diffued	(0.32, 0.33)	3200	7200	100/50	2.1	20

Through Hole Lamp_4mm

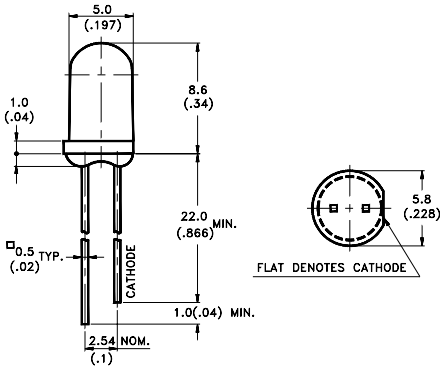
4mm Oval



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage VF (V)	Forward Current IF (mA)
LTL4VMYS5D	Yellow	Yellow Diffused	590	950	2100	50/100	2.1	20
LTW4VMDV5JS	White	White Diffued	(0.3, 0.3)	2100	4200	50/100	3.2	20

Through Hole Lamp_5mm

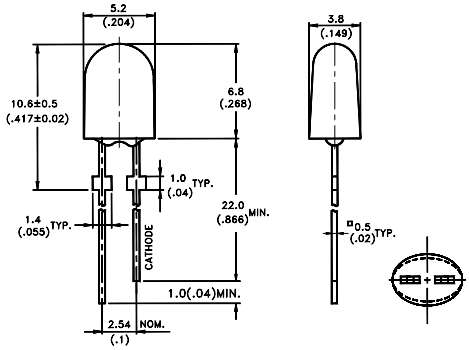
5mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL2H3E11K	Red	Water Clear	625	12000	16000	15	2.1	20
LTL2P3EX2K	Red	Water Clear	625	9300	12000	23	2.1	20
LTL2V3EY3KS	Red	Water Clear	625	7200	9300	30	2.1	20
LTL2V3EUJS	Red	White Diffued	625	2500	4200	36	2.1	20
LTL2R3FU3JSR	Amber	White Diffued	607	880	1900	30	1.9	10
LTL2H3Y11K	Yellow	Water Clear	590	7200	9300	15	2.1	20
LTL2P3YX2K	Yellow	Water Clear	590	9300	12000	23	2.1	20
LTL2R3YW3KS	Yellow	Water Clear	590	3800	4200	30	2.1	20
LTL2R3TGY3KS	Ture Green	Water Clear	525	7800	9600	30	3.2	20
LTL2H3TC21K	Cyan	Water Clear	505	15000	26000	15	3.2	20
LTL2P3TCY2K	Cyan	Water Clear	505	9300	12000	23	3.2	20
LTL2R3TCY3JS	Cyan	White Diffued	505	7200	9300	30	3.2	20
LTW2V3D13JS	White	White Diffued	(0.32, 0.33)	12000	27000	30	3.2	20
LTW-2S3D8-CY	White	Water Clear	(0.3, 0.3)	13000	29000	15	3.2	20

Through Hole Lamp_5mm

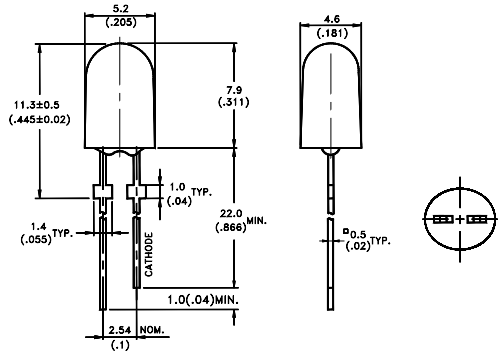
5mm Oval



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL5H3TRDS	Red	Red Diffued	624	720	2040	110/45	2.1	20
LTL5H3TGDS	True Green	Green Diffused	525	2300	6300	110/45	3.1	20
LTL5H3TBDS	Blue	Blue Diffused	470	430	1210	110/45	3.2	20
LTW5H3DVAJS	White	White Diffued	(0.32, 0.33)	2500	5500	110/55	3.2	20

Through Hole Lamp_5mm

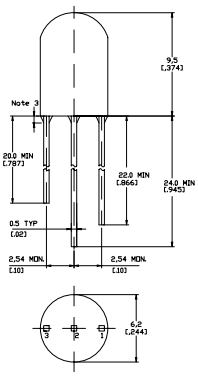
5mm Oval



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL5L3ES7D	Red	Red Diffused	624	1900	5500	70/35	2.1	20
LTL5L3YU7DS	Yellow	Yellow Diffused	591	3200	9300	70/35	2.1	20
LTL5L3TGV7D	True Green	Green Diffused	530	4200	12000	70/35	3.2	20
LTW5L3DW7JS	White	White Diffued	(0.32, 0.33)	4200	9300	70/35	3.2	20

Through Hole Lamp_5mm_Dual Color

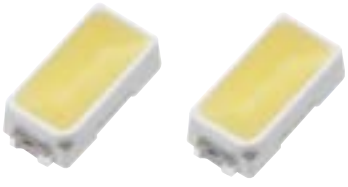
5mm Oval



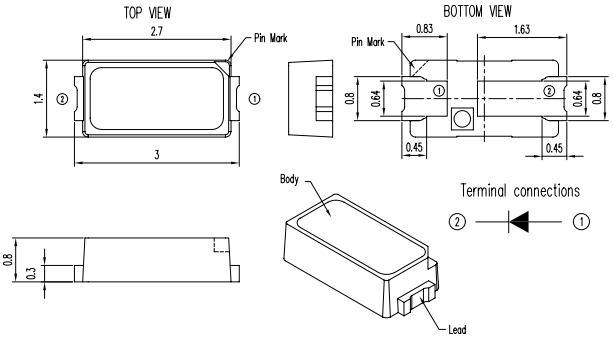
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity Iv (mcd)	Max. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage VF (V)	Forward Current I_F (mA)
LTL30SETG3J	Red	White Diffused	630	2500	7200	30	2.1	20
	True Green		525	520	1500		3.2	

Lighting LED

Middle Power

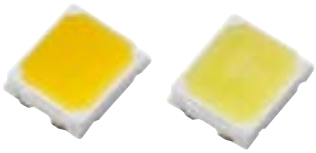


2.7 x 1.4 x 0.8 mm

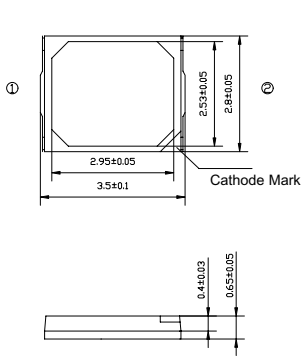


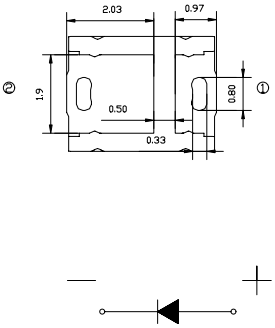
Part No.	Correlated color temperature (K)	CRI Ra (min.)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th} (j-s) (°C/W)
LTW-K140SZR27-EU	2700	80	23.5	120	3.2	60	30
LTW-K140SZR30-EU	3000	80	25	120	3.2	60	30
LTW-K140SZR40-EU	4000	80	26	120	3.2	60	30
LTW-K140SZR50-EU	5000	80	26.5	120	3.2	60	30
LTW-K140SZR57-EU	5700	80	26	120	3.2	60	30
LTW-K140SZR65-EU	6500	80	26	120	3.2	60	30
LTW-K140SXR85	8500	-	23	120	3.2	60	30

Middle Power



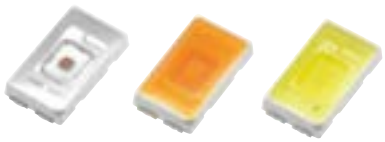
2.8 x 3.5 x 0.65 mm



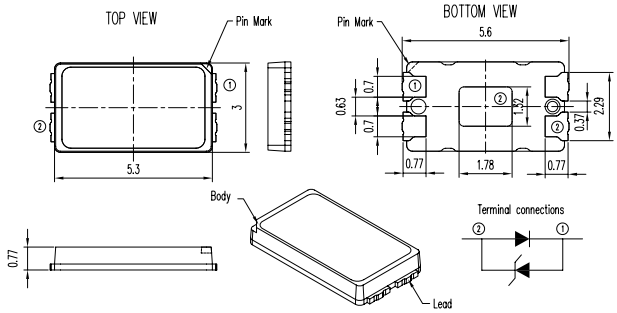


Part No.	Correlated color temperature (K)	CRI Ra (min.)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th} (j-s) (°C/W)
LTW-2835SZK27	2700	80	24.4	120	3.0	60	35
LTW-2835AZH27	2700	80	31	120	2.8	65	16
LTW-2835AZI27	2700	80	31	120	2.7	65	8
LTW-2835TZN27	2700	80	115	120	9.1	100	15
LTW-2835AZL27	2700	80	61.4	120	3.1	150	21
LTW-2835SZK30	3000	80	26	120	3.0	60	35
LTW-2835AZH30	3000	80	31.5	120	2.8	65	16
LTW-2835AZI30	3000	80	31.5	120	2.7	65	8
LTW-2835TZN30	3000	80	118	120	9.1	100	15
LTW-2835AZL30	3000	80	62.9	120	3.1	150	21
LTW-2835SZK40	4000	80	27.5	120	3.0	60	35
LTW-2835AZH40	4000	80	33	120	2.8	65	16
LTW-2835AZI40	4000	80	33	120	2.7	65	8
LTW-2835TZN40	4000	80	125	120	9.1	100	15
LTW-2835AZL40	4000	80	65.3	120	3.1	150	21
LTW-2835SZK50	5000	80	28	120	3.0	60	35
LTW-2835AZH50	5000	80	34	120	2.8	65	16
LTW-2835AZI50	5000	80	34	120	2.7	65	8
LTW-2835TZN50	5000	80	128	120	9.1	100	15
LTW-2835AZL50	5000	80	67.0	120	3.1	150	21
LTW-2835SZK57	5700	80	28	120	3.0	60	35
LTW-2835AZH57	5700	80	33.5	120	2.8	65	16
LTW-2835AZI57	5700	80	33.5	120	2.7	65	8
LTW-2835TZN57	5700	80	128	120	9.1	100	15
LTW-2835AZL57	5700	80	67.0	120	3.1	150	21
LTW-2835SZK65	6500	80	27.5	120	3.0	60	35
LTW-2835AZH65	6500	80	33	120	2.8	65	16
LTW-2835AZI65	6500	80	33	120	2.7	65	8
LTW-2835TZN65	6500	80	125	120	9.1	100	15
LTW-2835AZL65	6500	80	65.3	120	3.1	150	21

Middle Power



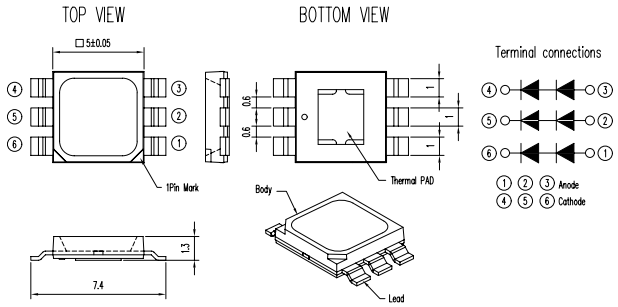
5.6 x 3.0 x 0.9 mm



Part No.	Correlated color temperature (K)	CRI Ra (min.)	λ_d (nm)	λ_p (nm)	Typ. Luminous Flux Φv (lm)	Typ. Radiant Flux (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTW-5630AZL27-EUH	2700	80	-	-	30.3	-	120	2.8	65	13
LTW-5630AQL27	2700	90	-	-	44.5	-	120	3.0	120	13
LTW-5630AZL30-EUH	3000	80	-	-	32.2	-	120	2.8	65	13
LTW-5630AQL30	3000	90	-	-	47.2	-	120	3.0	120	13
LTW-5630AZL40-EUH	4000	80	-	-	33.1	-	120	2.8	65	13
LTW-5630AQL40	4000	90	-	-	48.0	-	120	3.0	120	13
LTW-5630AZL50-EUH	5000	80	-	-	33.8	-	120	2.8	65	13
LTW-5630AQL50	5000	90	-	-	49.0	-	120	3.0	120	13
LTW-5630AZL57-EUH	5700	80	-	-	33.7	-	120	2.8	65	13
LTW-5630AQL57	5700	90	-	-	48.0	-	120	3.0	120	13
LTW-5630AZL65-EUH	6500	80	-	-	33.2	-	120	2.8	65	13
LTW-5630AQL65	6500	90	-	-	47.2	-	120	3.0	120	13
LTW-5630SD458	-	-	458	-	9	250	120	3.1	150	13
LTW-5630SD470	-	-	470	-	13.7	170	120	3.1	150	13
LTW-5630SD530	-	-	530	-	37	71.6	120	3.2	150	13
LTW-5630SD590	-	-	590	-	26	53	120	2.5	150	13
LTW-5630SD630	-	-	630	-	16	100	120	2.4	150	13
LTW-5630SP660	-	-	-	660	8.2	127	120	2.2	150	13
LTW-5630SP730	-	-	-	730	-	160	120	2.0	150	13
LTW-5630SP750	-	-	-	750	-	82	120	2.0	150	13

Middle Power

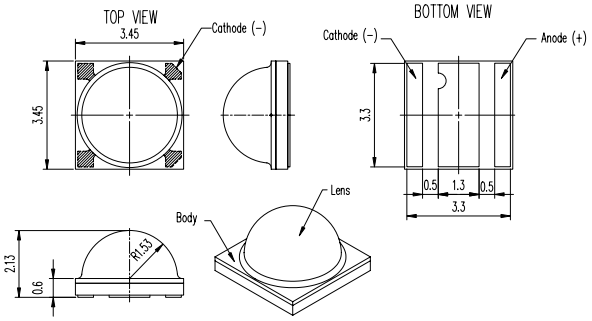
7.4 x 5.0 x 1.3 mm



Part No.	Correlated color temperature (K)	CRI Ra (min.)	Typ. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th} (j-s) (°C/W)
LTPL-P033BS50	5000	70	193	120	5.6	180	2.6
LTPL-P033BS40	4000	70	192	120	5.6	180	2.6
LTPL-P033BS30	3000	70	187	120	5.6	180	2.6

High Power

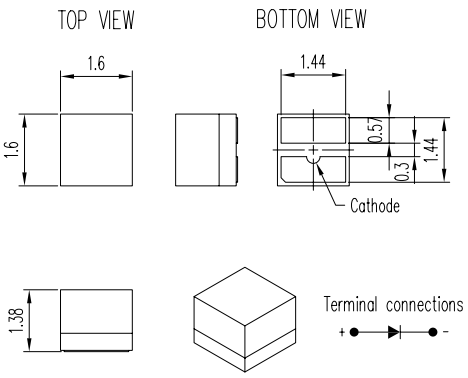
3.5 x 3.5 x 2.13 mm



Part No.	Color	λ_d (nm)	λ_p (nm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	Min. Radiant Flux (mW)	Max. Radiant Flux (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-C035RH630	Red	630	-	42	72	-	-	130	2.4	350	4.4
LTPL-C035RN615	Orange Red	615	-	24	36	-	-	130	2.3	140	13.3
LTPL-C035GH530	True Green	530	-	90	150	-	-	130	3	350	9
LTPL-C035GH500	Cyan	500	-	61	100	-	-	130	3.2	350	9
LTPL-C035BH470	Blue	470	-	-	-	420	600	130	3.1	350	9.5
LTPL-C035BH450	Blue	450	-	-	-	510	690	130	3.3	350	9.5
LTPL-C035RH660		-	660	-	-	360	480	130	2.1	350	4.1
LTPL-C035RH730		-	730	-	-	230	310	130	2	350	5.6

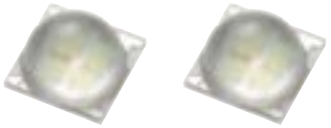
High Power

1.6 x 1.6 x 1.38 mm

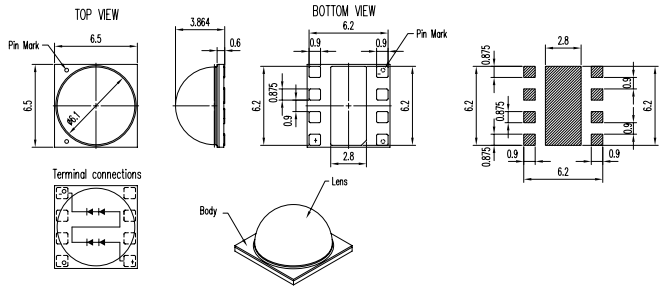


Part No.	Color	λ_d (nm)	λ_p (nm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	Min. Radiant Flux (mW)	Max. Radiant Flux (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-C16FRD630	Red	630	-	36	56	-	-	135	2.2	350	7.3
LTPL-C16FGH530	True Green	530	-	110	160	-	-	135	3	500	9.6
LTPL-C16FBD470	Blue	470	-	22	32	-	-	135	3.2	350	5.5
LTPL-C16FRD660	-	-	660	-	-	220	320	135	2.1	350	5.8
LTPL-C16FRM780	-	-	780	-	-	27	39	135	1.9	50	33.3

High Power

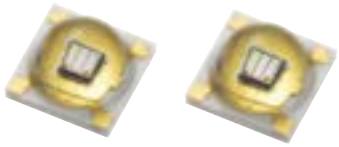


6.5 x 6.5 x 3.86 mm

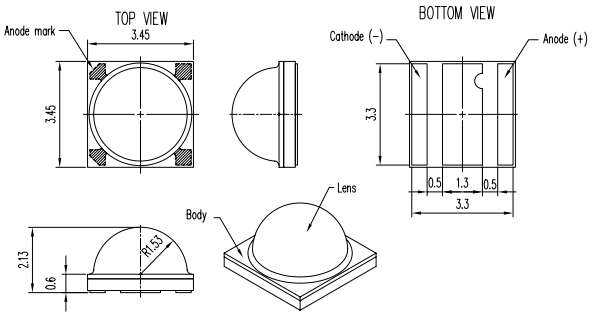


Part No.	Color	λ_d (nm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-C08ERS	Red	624	240	330	130	10	350	3.5
LTPL-C08EAS	True Green	588	380	580	130	12	350	3.5
LTPL-C08ECT	Blue	500	250	380	130	13.2	350	3.5

High Power



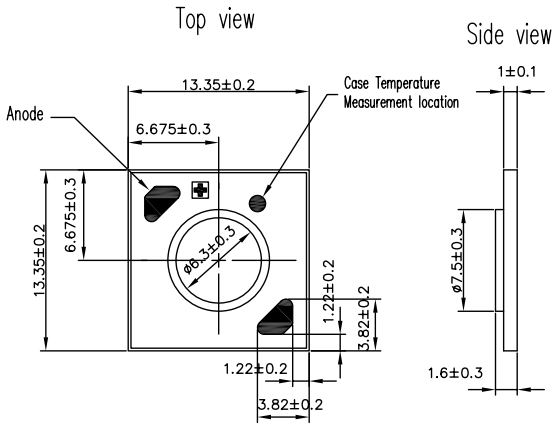
3.45 x 3.45 x 2.13 mm

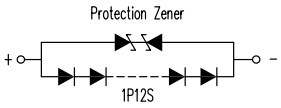


Part No.	Color	λ_d (nm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-C034AH610	Red	610	74	120	130	2.4	350	4.6
LTPL-C034OH590	Yellow	590	50	100	130	2.4	350	6.4
LTPL-C034DH	Yellow	550	80	140	130	3.3	500	9

Ceramic COB

13.35 x 13.35 x 1.6 mm



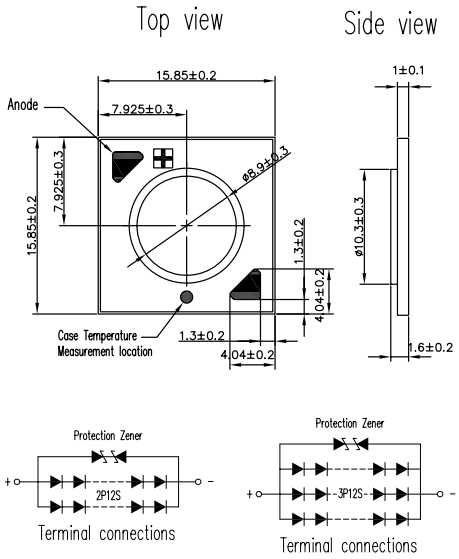


Terminal connections

Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-M13706ZS27-T0	2700	80	6.3	395	580	120	35.7	100	4.00
LTPL-M13710ZS27-T0	2700	80	6.3	730	1070	120	35.7	200	2.50
LTPL-M13712ZS27-T0	2700	80	6.3	730	1070	120	35.7	200	2.50
LTPL-M13706ZS30-T0	3000	80	6.3	395	580	120	35.7	100	4.00
LTPL-M13710ZS30-T0	3000	80	6.3	730	1070	120	35.7	200	2.50
LTPL-M13712ZS30-T0	3000	80	6.3	790	1140	120	35.7	200	2.50
LTPL-M13706ZS40-T0	4000	80	6.3	425	625	120	35.7	100	4.00
LTPL-M13710ZS40-T0	4000	80	6.3	790	850	120	35.7	200	2.50
LTPL-M13712ZS40-T0	4000	80	6.3	790	1155	120	35.7	200	2.50
LTPL-M13706ZS50-F1	5000	80	6.3	425	625	120	35.7	100	4.00
LTPL-M13710ZS50-F1	5000	80	6.3	790	850	120	35.7	200	2.50
LTPL-M13712ZS50-F1	5000	80	6.3	190	1155	120	35.7	200	2.50

Ceramic COB

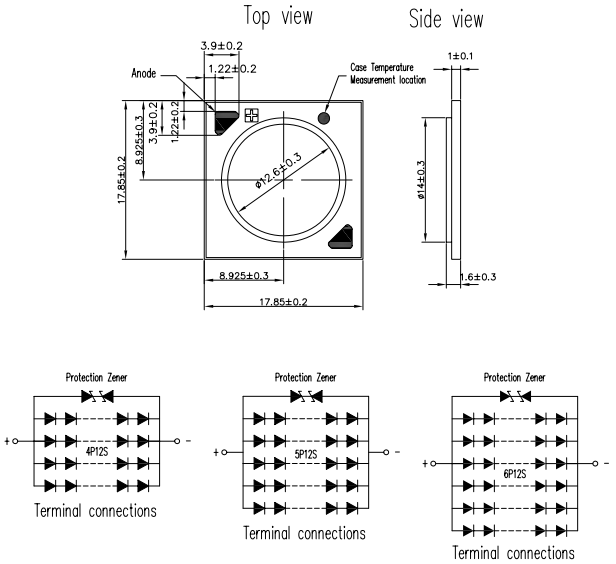
15.85 x 15.85 x 1.6 mm



Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-M03614ZS27-T0	2700	80	8.9	1345	1975	120	36.9	350	1.70
LTPL-M03622ZS30-T0	2700	80	8.9	1975	2890	120	36.9	500	1.20
LTPL-M03614ZS30-T0	3000	80	8.9	1345	1975	120	36.9	350	1.70
LTPL-M03622ZS30-T0	3000	80	8.9	1975	2890	120	36.9	500	1.20
LTPL-M03614ZS40-T0	4000	80	8.9	1455	2130	120	36.9	350	1.70
LTPL-M03622ZS30-T0	4000	80	8.9	2130	3120	120	36.9	500	1.20

Ceramic COB

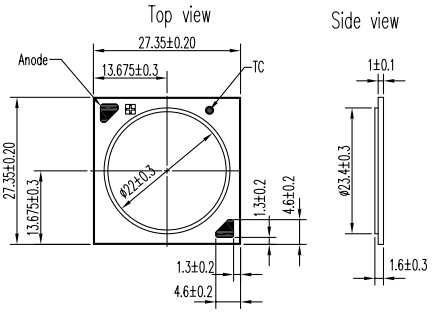
17.85 x 17.85 x 1.6 mm

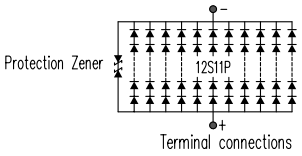


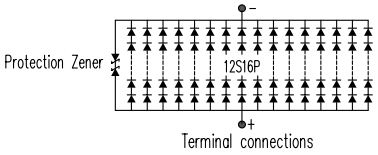
Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-M09825ZS30-T0	3000	80	12.6	2890	3925	120	37.1	700	1.24
LTPL-M09825QS30-T0	3000	90	12.6	2300	3120	120	37.1	700	1.24
LTPL-M09830ZS30-T0	3000	80	12.6	3370	4940	120	36.1	800	0.76
LTPL-M09830QS30-T0	3000	90	12.6	2890	3925	120	36.1	800	0.76
LTPL-M09825ZS40-T0	4000	80	12.6	2890	3925	120	37.1	700	1.24
LTPL-M09830ZS40-T0	4000	80	12.6	3370	4940	120	36.1	800	0.76
LTPL-M09825ZS50-F1	5000	80	12.6	3120	4204	120	37.1	700	1.24
LTPL-M09830ZS50-F1	5000	80	12.6	3640	5330	120	36.1	800	0.76

Ceramic COB

27.35 x 27.35 x 1.6 mm

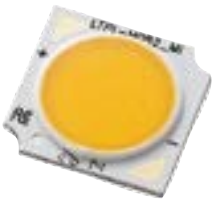




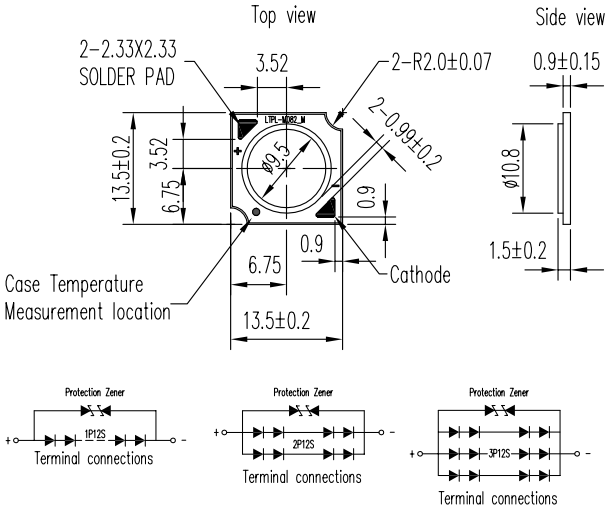


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-M07452ZS30-T0	3000	80	22	6210	9100	120	35.9	1400	0.32
LTPL-M07480ZS30-T0	3000	80	22	8430	12350	120	35.9	2050	0.24
LTPL-M07452ZS57-T0	5700	80	22	6700	9820	120	35.9	1400	0.32
LTPL-M07480ZS57-T0	5700	80	22	9100	13330	120	35.9	2050	0.24
LTPL-M07452ZS65-T0	6500	80	22	6700	9820	120	35.9	1400	0.32
LTPL-M07480ZS65-T0	6500	80	22	9100	13330	120	35.9	2050	0.24

MCPCB COB



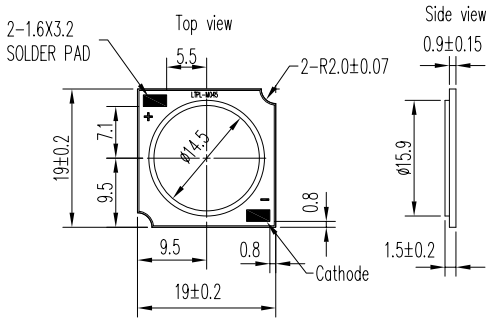
17.85 x 17.85 x 1.6 mm

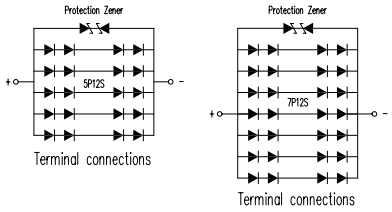


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-M08206ZS27-T0	2700	80	9.5	535	730	120	36.5	120	2.04
LTPL-M08210ZS27-T0	2700	80	9.5	990	1345	120	36.5	240	1.20
LTPL-M08218ZS27-T0	2700	80	9.5	1455	1975	120	36.5	360	0.90
LTPL-M08206ZS30-T0	3000	80	9.5	535	730	120	36.5	120	2.04
LTPL-M08206QS30-T0	3000	90	9.5	460	625	120	36.5	120	2.04
LTPL-M08210ZS30-T0	3000	80	9.5	990	1345	120	36.5	240	1.20
LTPL-M08210QS30-T0	3000	90	9.5	850	1155	120	36.5	240	1.20
LTPL-M08218ZS30-T0	3000	80	9.5	1570	2130	120	36.5	360	0.90
LTPL-M08218QS30-T0	3000	90	9.5	1245	1695	120	36.5	360	0.90
LTPL-M08206ZS40-T0	4000	80	9.5	580	790	120	36.5	120	2.04
LTPL-M08210ZS40-T0	4000	80	9.5	1070	1455	120	36.5	240	1.20
LTPL-M08218ZS40-T0	4000	80	9.5	1570	2130	120	36.5	360	0.90

MCPCB COB

19 x 19 x 1.5 mm



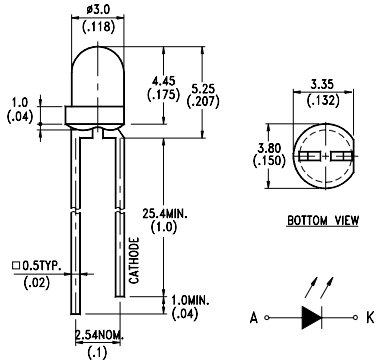


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance R_{th}(j-s) (°C/W)
LTPL-M04520ZS27-T0	2700	80	14.5	2300	3120	120	35.5	480	0.44
LTPL-M04530ZS27-T0	2700	80	14.5	3370	4575	120	35.8	720	0.37
LTPL-M04520ZS30-T0	3000	80	14.5	2485	3370	120	35.5	480	0.44
LTPL-M04520QS30-T0	3000	90	14.5	1830	2485	120	35.5	480	0.44
LTPL-M04530ZS30-T0	3000	80	14.5	3640	4940	120	35.8	720	0.37
LTPL-M04530QS30-T0	3000	90	14.5	2980	3925	120	35.8	720	0.37
LTPL-M04520ZS40-T0	4000	80	14.5	2485	3370	120	35.5	480	0.44
LTPL-M04530ZS40-T0	4000	80	14.5	3640	4940	120	35.8	720	0.37

Infrared Emitter and Detector

IR Emitter_3mm Through Hole Type

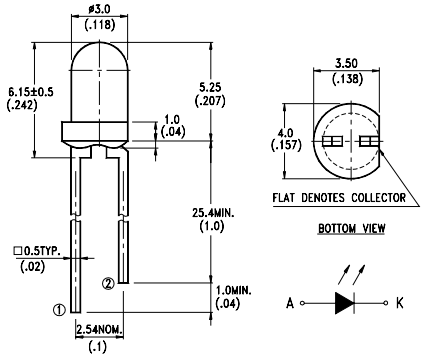
T1 Top View, 3mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)
LTE-1650	940	Water Clear	60	3.4 @I_F=20mA	1.2@I_F=50mA
LTE-18G3N	940	Water Clear	20	18.0 @I_F=20mA	1.5 @I_F=20mA

IR Emitter_3mm Through Hole Type

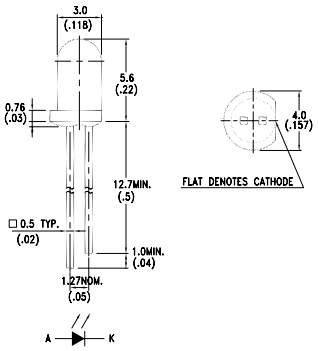
T1 Top View, 3mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)
LTE-4206	940	Water Clear	20	5.3 @I_F=20mA	1.2 @I_F=20mA
LTE-4206C	940	Smoke	20	5.3 @I_F=20mA	1.2 @I_F=20mA
LTE-4209	850	Water Clear	25	33 @I_F=50mA	1.5 @I_F=50mA
LTE-16K3L	940	Water Clear	55	7.4 @I_F=20mA	1.5 @I_F=20mA

IR Emitter_3mm Through Hole Type

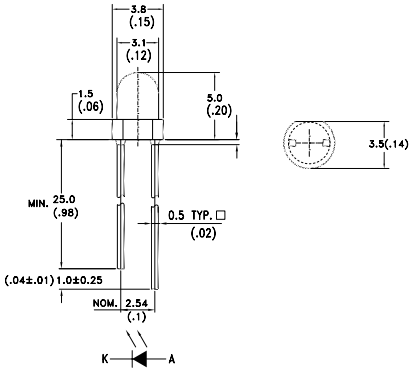
T1 Top View, 3mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-209	940	Water Clear	16	1.4	1.2	20

IR Emitter_3mm Through Hole Type

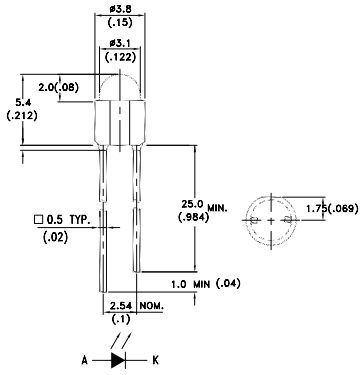
T1 Top View, 3mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-14H0B	850	Black	40	36.0	1.6	50

IR Emitter_3mm Through Hole Type

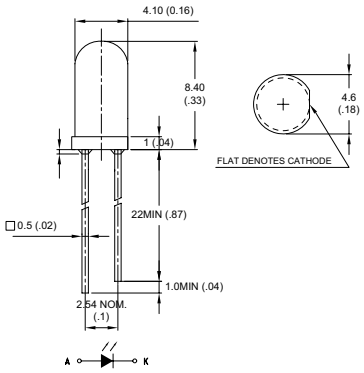
T1 Top View, 3mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-16H0B	850	Black	60	26.0	1.6	50

IR Emitter_3mm Through Hole Type

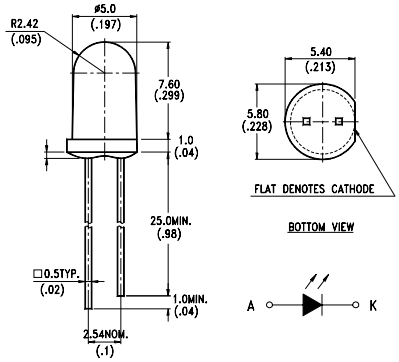
T1 Top View, 3mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-18H0B	850	Black	50	30.0	1.6	50

IR Emitter_5mm Through Hole Type

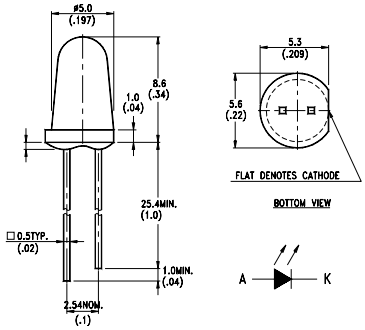
T1 3/4 Top View, 5mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)
LTE-3279K	940	Light Blue	60	50.0 @I_F=100mA	1.4 @I_F=100mA
LTE-3271B	940	Water Clear	50	9.0 @I_F=20mA	1.3 @I_F=50mA
LTE-3271BL	940	Blue	50	9.0 @I_F=20mA	1.3 @I_F=50mA
LTE-3371T	940	Water Clear	40	10.5 @I_F=20mA	1.3 @I_F=50mA
LTE-5228A	940	Water Clear	40	10.5 @I_F=20mA	1.2 @I_F=20mA
LTE-3223L	940	Water Clear	30	15.0 @I_F=20mA	1.3 @I_F=50mA
LTE-3273L	940	Water Clear	40	8.0 @I_F=20mA	1.3 @I_F=50mA
LTE-3273DL	940	Blue	45	8.0 @I_F=20mA	1.3 @I_F=50mA
LTE-32B3L	940	Water Clear	50	8.5 @I_F=20mA	1.2 @I_F=20mA
LTE-4208	940	Water Clear	20	22.2 @I_F=20mA	1.2 @I_F=20mA
LTE-4238R	880	Water Clear	20	10.5 @I_F=20mA	1.3 @I_F=20mA
LTE-3677	875	Water Clear	30	38.0 @I_F=50mA	1.5 @I_F=50mA
LTE-3276	850	Water Clear	50	32.0 @I_F=50mA	1.5 @I_F=50mA
LTE-3376	850	Water Clear	30	45.0 @I_F=50mA	1.6 @I_F=50mA
LTE-3226	850	Water Clear	25	65.0 @I_F=50mA	1.6 @I_F=50mA
LTE-3372	850	Water Clear	20	108.0 @I_F=50mA	1.6 @I_F=50mA
LTE-3220L	850	Water Clear	30	60.0 @I_F=50mA	1.5 @I_F=50mA
LTE-3070L	850	Water Clear	45	22.5 @I_F=50mA	1.5 @I_F=50mA
LTE-3370L	850	Water Clear	20	80.0 @I_F=50mA	1.6 @I_F=50mA
LTE-32B0L	850	Water Clear	40	22.0 @I_F=20mA	1.5 @I_F=50mA
LTE-32F0L	850	Water Clear	60	28.0 @I_F=50mA	1.5 @I_F=50mA
LTE-7F70L	850	Water Clear	95	10.0 @I_F=50mA	1.6 @I_F=100mA

IR Emitter_5mm Through Hole Type

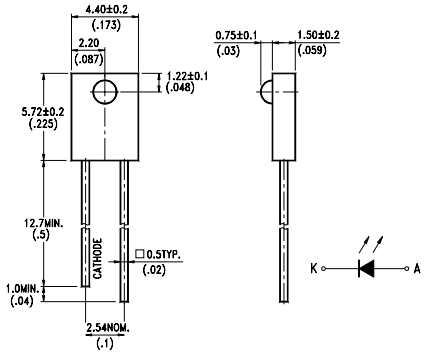
T1 3/4 Top View, 5mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-2872U	940	Water Clear	16	12.0	1.2	20

IR Emitter_Side Look

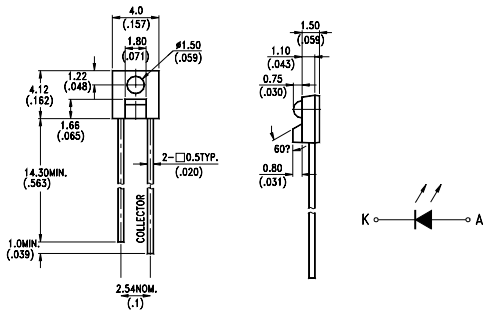
5.72 x 4.40 x 2.25 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-302	940	Water Clear	40	1.4	1.2	20

IR Emitter_Side Look

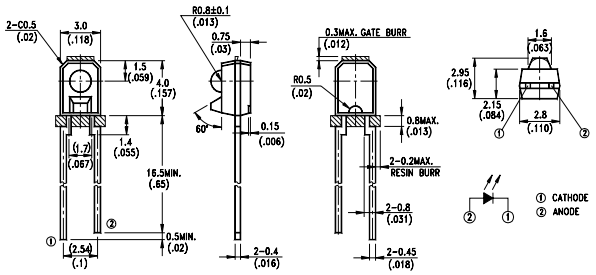
4.12 x 4.00 x 2.25 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-309	940	Water Clear	40	1.4	1.2	20

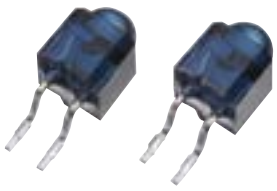
IR Emitter_Side Look

4.00 x 3.00 x 2.95 mm

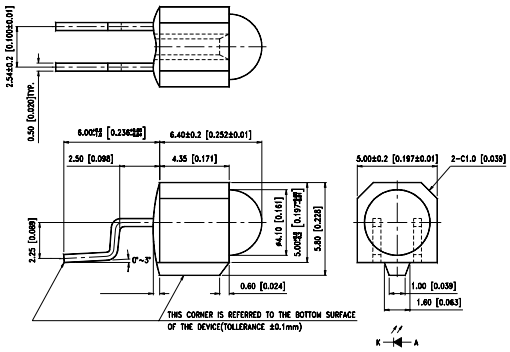


Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)
LTE-306	940	Water Clear	30	1.5 @I_F=20mA	1.2 @I_F=20mA
LTE-304	850	Water Clear	30	3.0 @I_F=20mA	1.6 @I_F=50mA

IR Emitter_SMD Side View

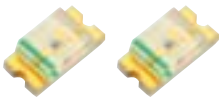


6.40 x 5.80 x 5.00 mm

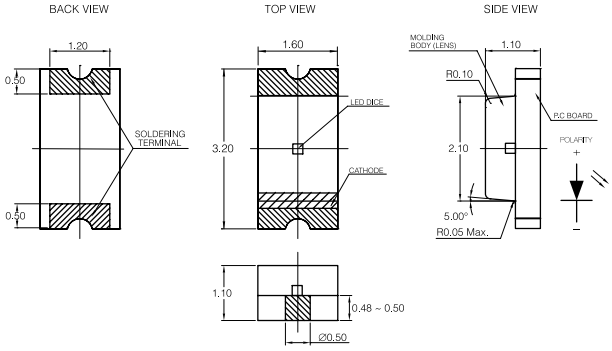


Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)
LTE-7377L	880	Blue	16	35.0 @I_F=50mA	1.8 @I_F=350mA

IR Emitter_SMD Type



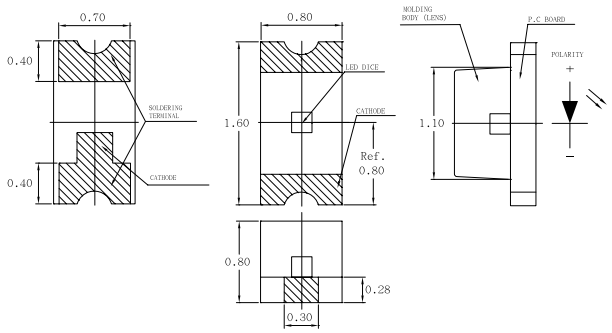
3.2 x 1.6 x 1.1 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C1501	940	Clear	130	0.8	1.2	20
LTE-C1506	850	Clear	130	1.0	1.4	20

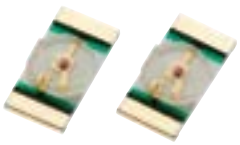
IR Emitter_SMD Type

1.6 x 0.8 x 0.8 mm

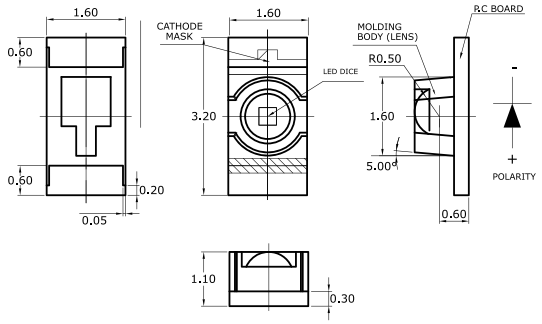


Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C1901-ZF	940	Clear	150	0.8	1.2	20
LTE-C1906R-14	850	Clear	130	2.0	1.6	20

IR Emitter_SMD Type



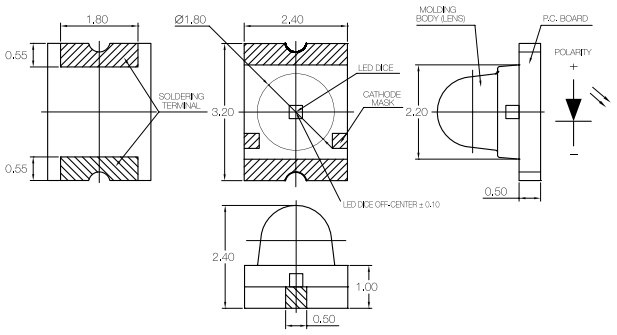
3.2 x 1.6 x 1.1 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C211-X	940	Clear	115	1.8	1.2	20
LTE-C216-P	850	Clear	75	4.0	1.4	20
LTE-C216R-14	850	Clear	75	4.0	1.4	20

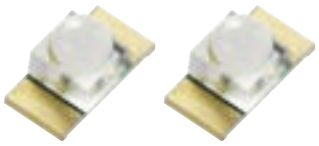
IR Emitter_SMD Type

3.2 x 2.4 x 2.4 mm

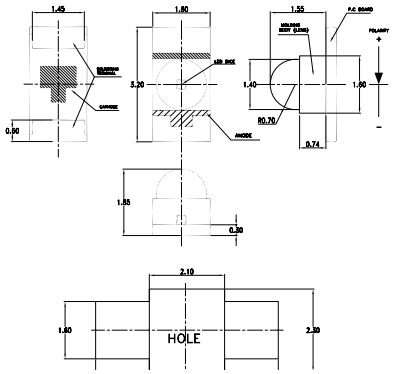


Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C9301	940	Clear	25	2.9	1.2	20
LTE-C9306	850	Clear	20	4.0	1.5	20
LTE-C9306R-14	850	Clear	20	10.0	1.4	20

IR Emitter_SMD Type



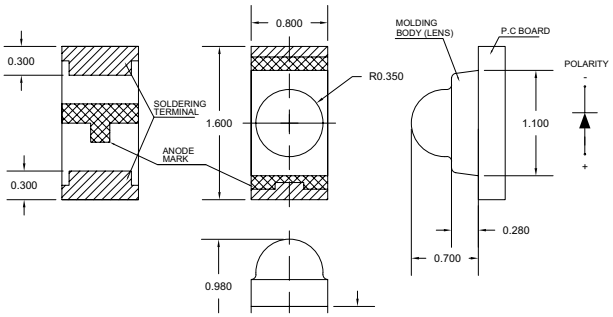
3.2 x 1.6 x 1.85 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C9501-E-T	940	Clear	20	4.0	1.2	20
LTE-C9506B	850	Black	20	20.0	1.4	20

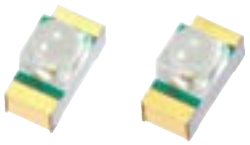
IR Emitter_SMD Type

1.6 x 0.8 x 0.98 mm

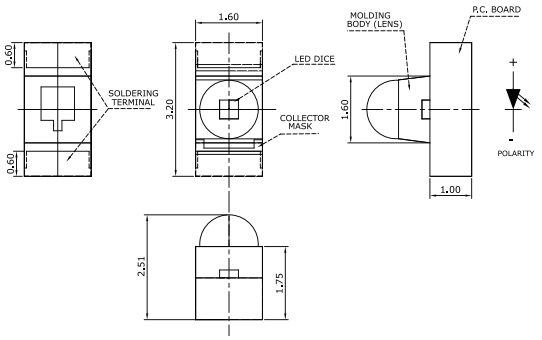


Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C9901	940	Clear	65	8.0	1.4	20

IR Emitter_SMD Type



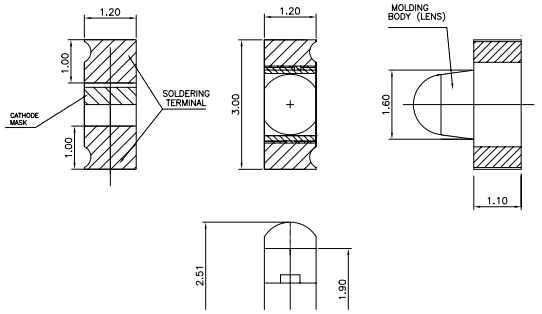
3.2 x 2.5 x 1.6 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S9511-E	940	Clear	25	6.0	1.2	20

IR Emitter_SMD Type

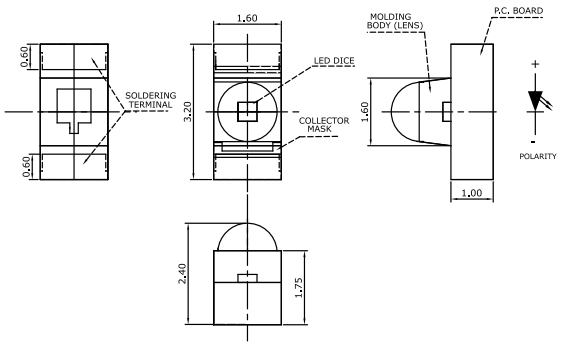
3.2 x 2.5 x 1.2 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S9511TS	940	Clear	18	20	1.3	20

IR Emitter_SMD Type

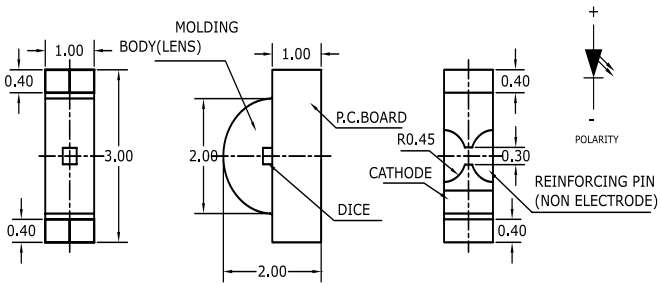
3.2 x 2.4 x 1.6 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S9711-J	940	Clear	45	3.0	1.2	20

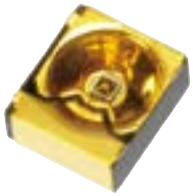
IR Emitter_SMD Type

3.0 x 2.0 x 1.0 mm

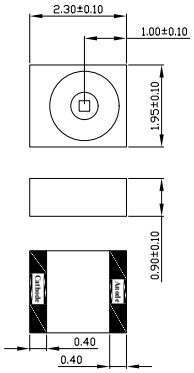


Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S3201	940	Clear	130	0.5	1.2	20
LTE-S3206	850	Clear	130	1.9	1.4	20

IR Emitter_SMD Bowl Type

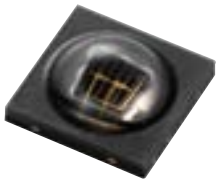


2.30 x 1.95 x 0.90 mm

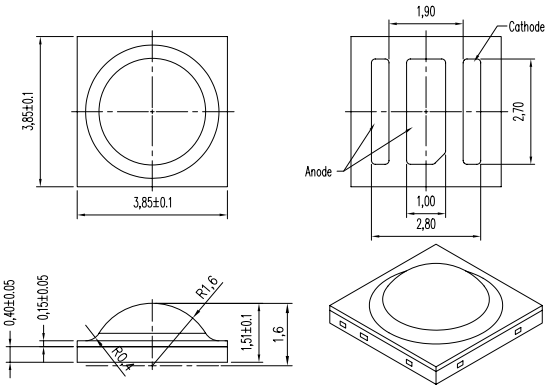


Part No.	λ_p(nm)	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Max. Continuous Forward Current (mA)
LTE-C269	940	30	35-114 @I_F=100mA	1.4 @I_F= 100mA	100
LTE-C249	855	30	20-114 @I_F=100mA	1.6 @I_F= 100mA	100

IR Emitter_High Power SMD



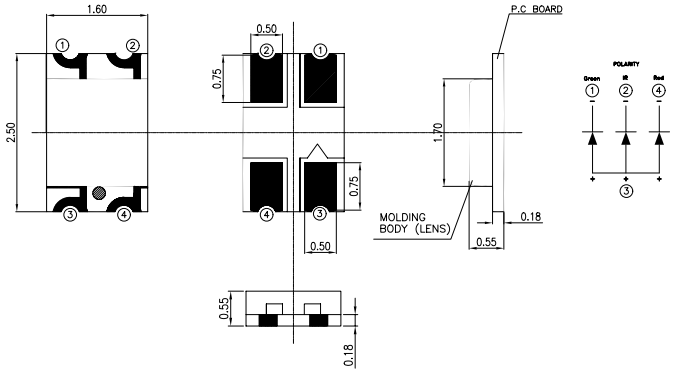
3.85 x 3.85 x 1.51 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)
LTE-R38381-S	940	Clear	90	300.0 @I_F=1000mA	1.8 @I_F=1000mA
LTE-R38831S-S	940	Clear	90	550.0 @I_F=1000mA	3.0 @I_F=1000mA
LTE-R38386-SE8	850	Clear	90	200.0 @I_F=700mA	1.7 @I_F=350mA
LTE-R38386-ZFE8	850	Clear	150	120.0 @I_F=700mA	1.7 @I_F=350mA
LTE-R38386-S	850	Clear	90	300.0 @I_F=1000mA	1.8 @I_F=1000mA
LTE-R38386-ZF	850	Clear	150	150.0 @I_F=1000mA	1.8 @I_F=1000mA
LTE-R38386S-S	850	Clear	90	550.0 @I_F=1000mA	3.0 @I_F=1000mA
LTE-R38386S-ZF	850	Clear	150	225.0 @I_F=1000mA	3.0 @I_F=1000mA
LTE-R38389S-S	810	Clear	90	500.0 @I_F=1000mA	3.3 @I_F=1000mA

IR Emitter_SMD Type

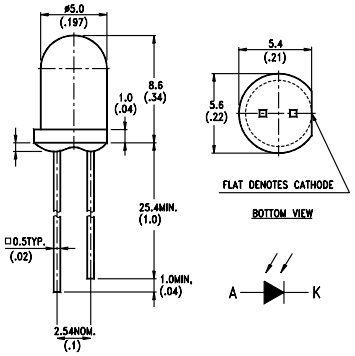
2.5 x 1.6 x 0.55 mm



Part No.	λ_p(nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-C195IRG	940	Clear	130	2.0	1.4	20
	660			3.0	2.1	20
	525			2.5	2.9	20

Photodiode_5mm Through Hole Type

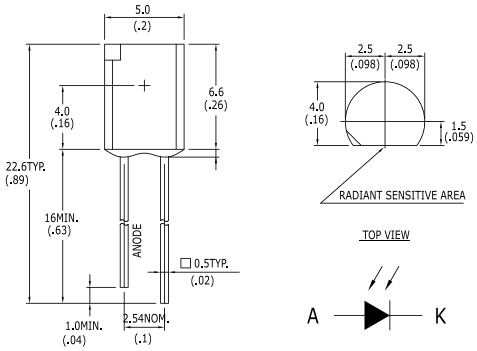
T1 3/4 Top View, 5mm



Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.1mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-323DB	Dark	Yes	13	30	30

Photodiode_Side Look

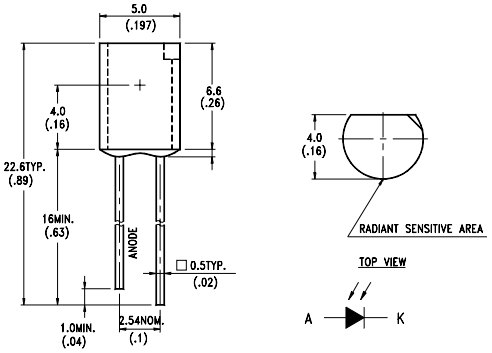
6.6 x 5.0 x 4.0 mm



Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.1mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-526AD	Dark	Yes	2	30	30

Photodiode_Side Look

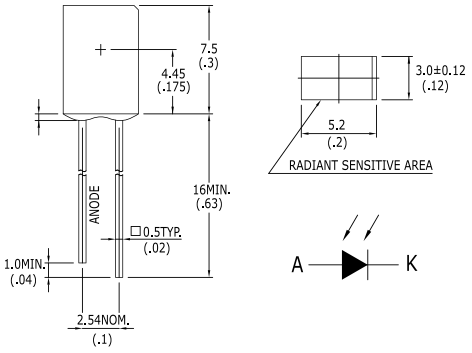
6.6 x 5.0 x 4.0 mm



Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.1mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-516AB	Dark	Yes	2	30	30
LTR-516AD	Dark	Yes	2	30	30

Photodiode_Side Look

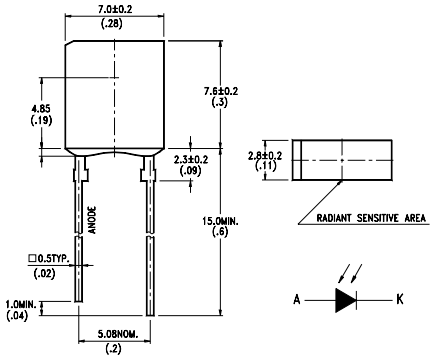
7.5 x 5.2 x 3.0 mm



Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.1mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-536AD	Dark	Yes	2	30	30

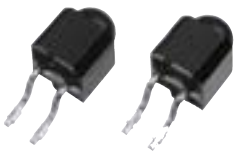
Photodiode_Side Look

7.6 x 7.0 x 2.8 mm

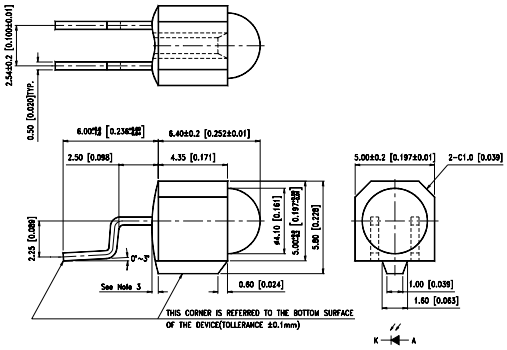


Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.1mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-546AB	Dark	Yes	2	30	30
LTR-546AD	Dark	Yes	2	30	30

Photodiode_SMD Side Look

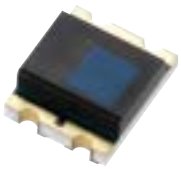


6.4 x 5.0 x 5.80 mm

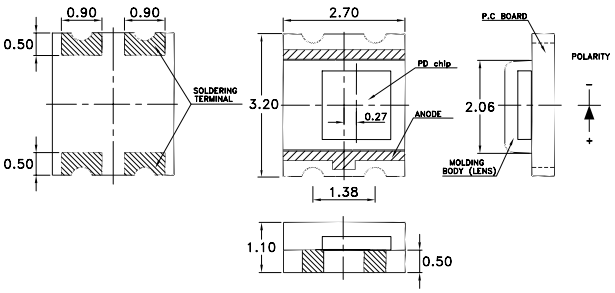


Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.1mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-733DBM1-TA	Dark	Yes	7	30	30

Photodiode_SMD Type

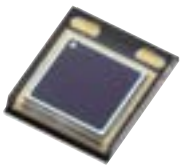


3.2 x 2.7 x 1.1 mm

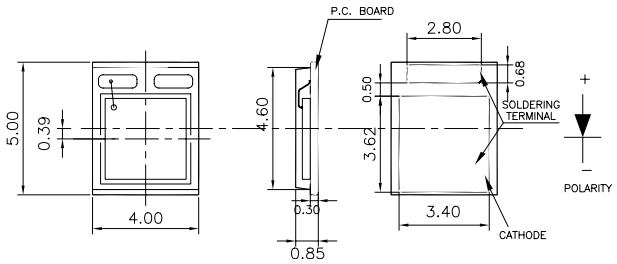


Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.5mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-C155-DC	Clear	No	10	10	33
LTR-C155-DB	Dark	Yes	10	10	33

Photodiode_SMD Type



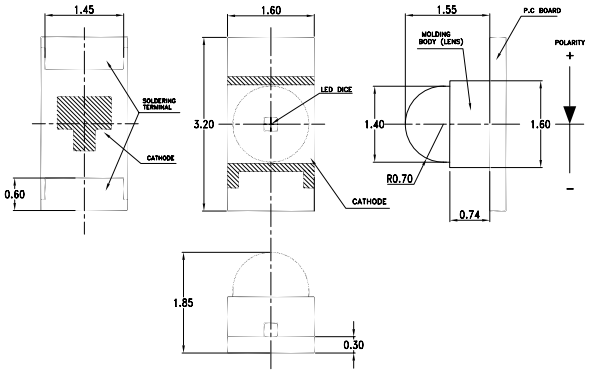
5.0 x 4.0 x 0.85 mm



Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.5mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-C5510-DC	Clear	No	940nm : 40 660nm : 35 525nm : 30	10	33
LTR-C5511-DB	Black	Yes	40	10	33

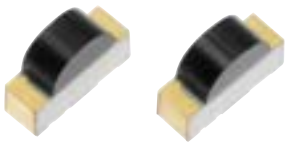
Photodiode_SMD Type

3.2 x 1.6 x 1.85 mm

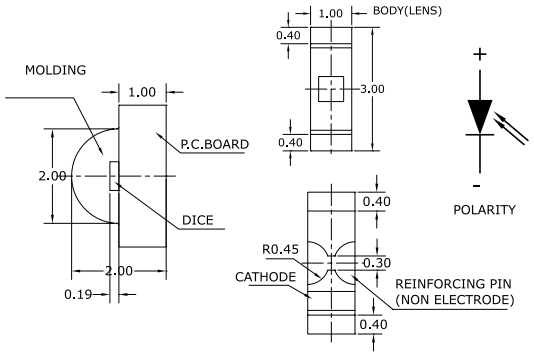


Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.5mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-C950-DB	Black	Yes	3	10	33

Photodiode_SMD Type



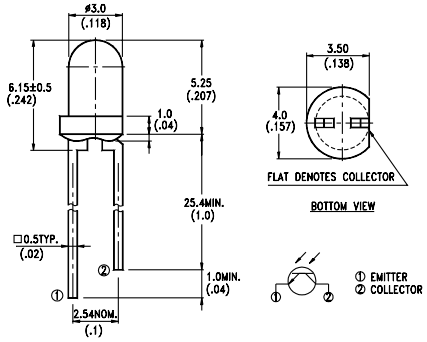
3.0 x 2.0 x 1.0 mm



Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA)@V_R=5V; E_e=0.5mW/cm^2;λ=940nm	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @V_R=10V; E_e = 0mW/cm^2	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @I_R=100μA E_e = 0mW/cm^2
LTR-S320-DB-L	Dark	Yes	1.8	10	33

Phototransistors_3mm Through Hole Type

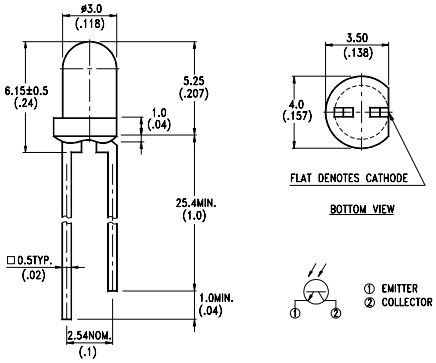
T1 Top View, 3mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-1650D	Dark	Yes	4	100	0.4	30

Phototransistors_3mm Through Hole Type

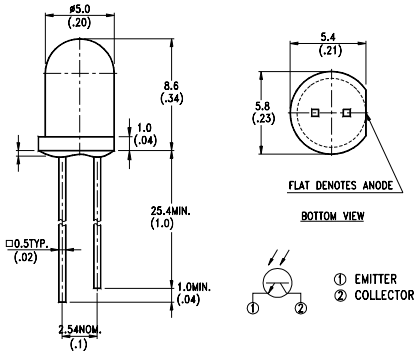
T1 Top View, 3mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-4206	Water Clear	No	4	100	0.4	30
LTR-4206E	Dark	Yes	4	100	0.4	30

Phototransistors_3mm Through Hole Type

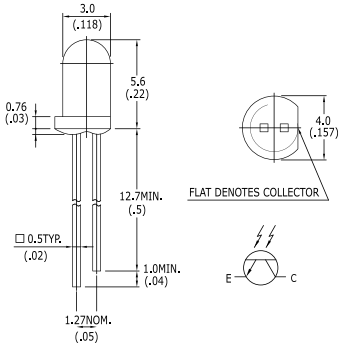
T1 Top View, 3mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-3208	Water Clear	No	8	100	0.4	30
LTR-3208E	Dark	Yes	8	100	0.4	30

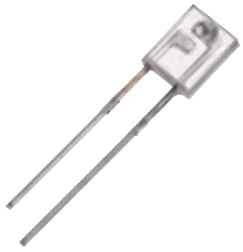
Phototransistors_3mm Through Hole Type

T1 Top View, 3mm

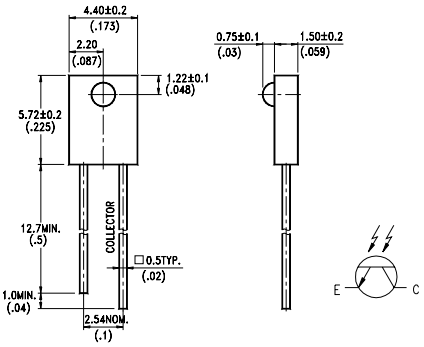


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-209	Water Clear	No	4	100	0.4	30
LTR-209H	Dark	Yes	4	100	0.4	30

Phototransistors_Side Look



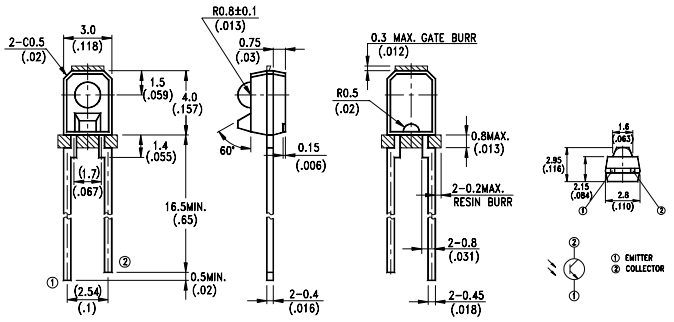
5.72 x 4.40 x 2.25 mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_C=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_C=1mA E_e= 0mW/cm^2
LTR-301	Water Clear	No	2	100	0.4	30

Phototransistors_Side Look

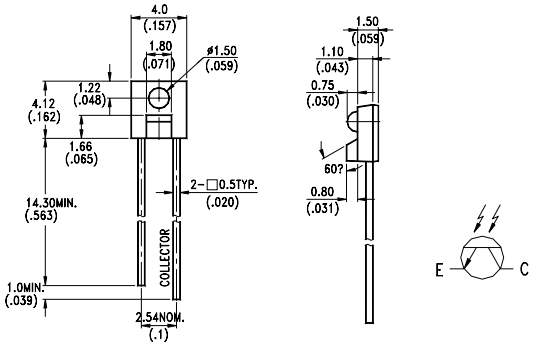
4.0 x 3.0 x 2.95 mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_C=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_C=1mA E_e= 0mW/cm^2
LTR-306	Red Clear	No	2	100	0.4	30

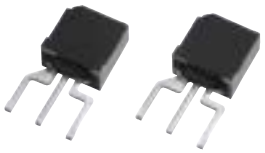
Phototransistors_Side Look

4.12 x 4.0 x 2.25 mm

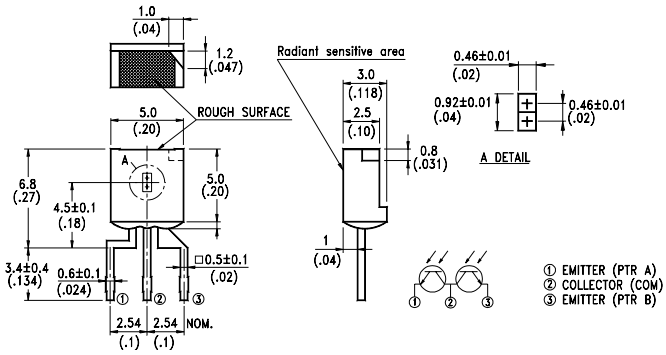


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_C=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_C=1mA E_e= 0mW/cm^2
LTR-309	Water Clear	No	2	100	0.4	30

Phototransistors_Side Look

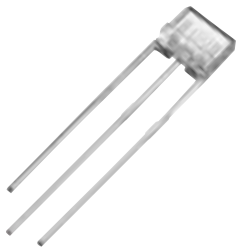


6.8 x 5.0 x 3.0 mm

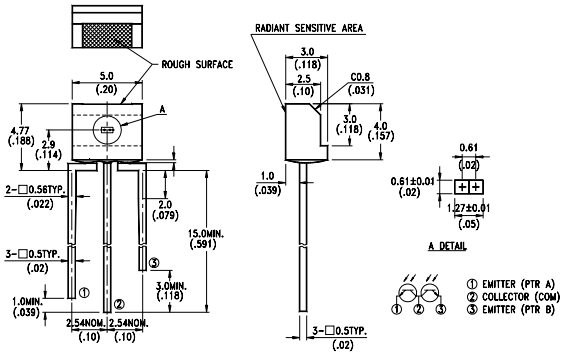


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=50μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 1mW/cm^2
LTR-5579DP1	Dark	Yes	0.3	100	0.4	30

Phototransistors_Side Look



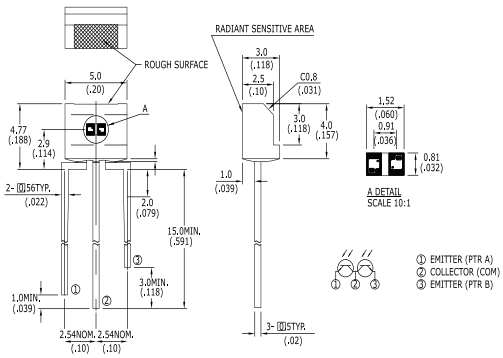
4.77 x 5.0 x 3.0 mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=50μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-5986H	Water Clear	No	0.5	100	0.4	30

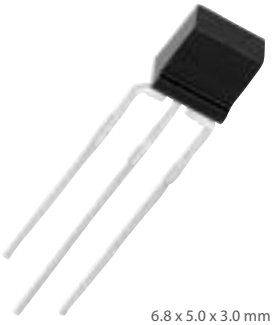
Phototransistors_Side Look

4.77 x 5.0 x 3.0 mm

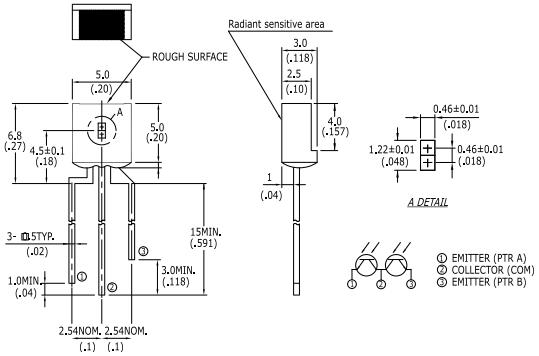


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 1mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-5888DH	Dark	Yes	0.49	100	0.4	30

Phototransistors_Side Look

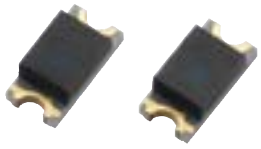


6.8 x 5.0 x 3.0 mm

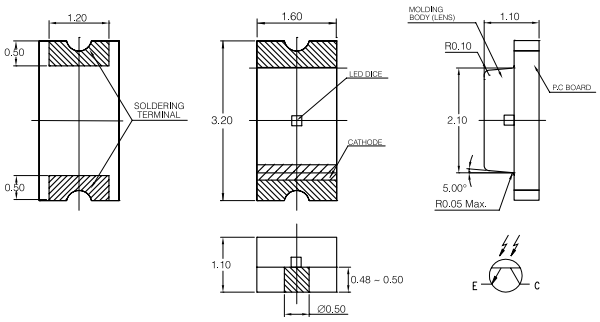


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=1mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=10V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=50μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-5576D	Dark	Yes	0.55	100	0.4	30

Phototransistors_SMD Type

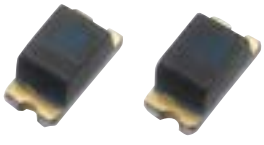


3.2 x 1.6 x 1.1 mm

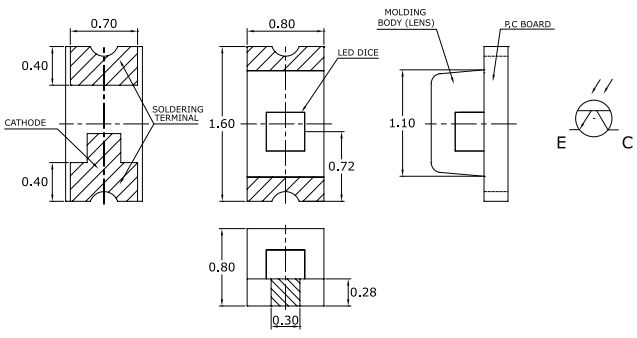


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=1mA E_e= 0mW/cm^2
LTR-C1503	Clear	No	0.8	100	0.4	30

Phototransistors_SMD Type



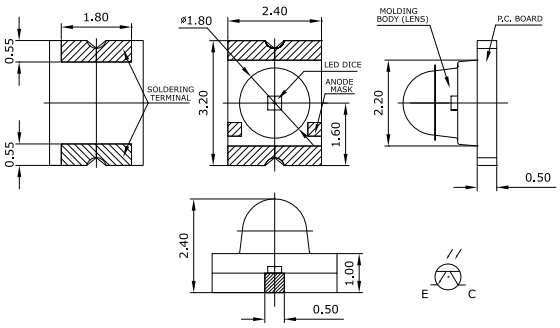
1.6 x 0.8 x 0.8 mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=100μA E_e= 0mW/cm^2
LTR-C1903	Clear	No	0.25	100	0.4	35

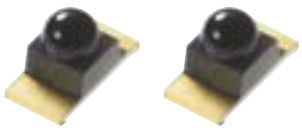
Phototransistors_SMD Type

3.2 x 2.4 x 2.4 mm

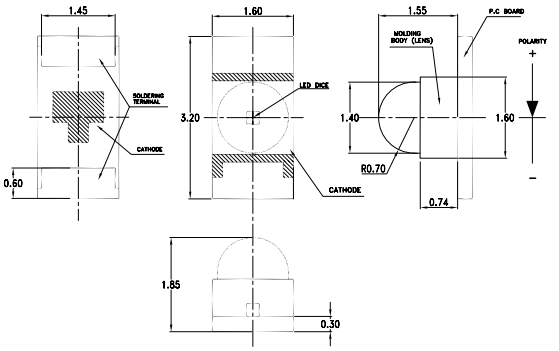


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=100μA E_e= 0mW/cm^2
LTR-C9303B	Dark	Yes	2	100	0.4	30

Phototransistors_SMD Type

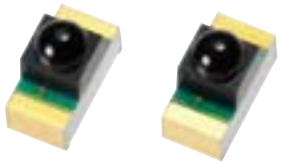


3.2 x 1.6 x 1.85 mm

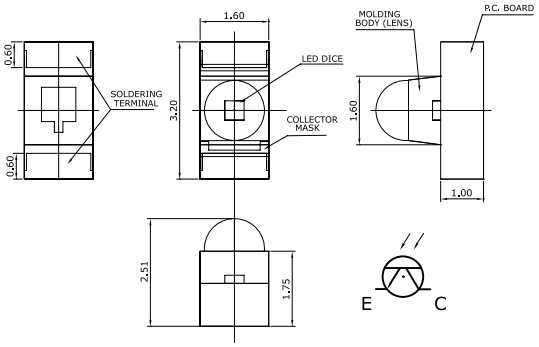


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=100μA E_e= 0mW/cm^2
LTR-C950-TB-T	Dark	Yes	4.5	100	0.4	30

Phototransistors_SMD Type

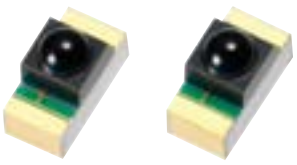


3.2 x 2.5 x 1.6 mm

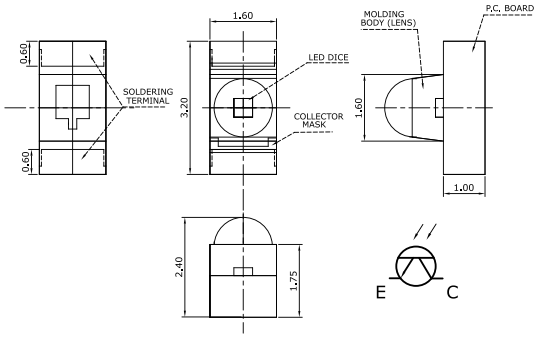


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=100μA E_e= 0mW/cm^2
LTR-S951-TB	Dark	Yes	5	100	0.4	30

Phototransistors_SMD Type

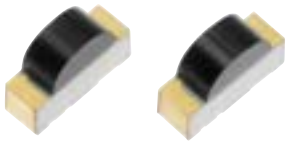


3.2 x 2.4 x 1.6 mm

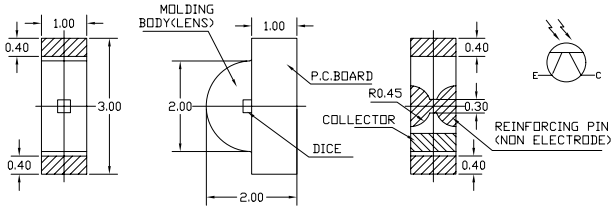


Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=100μA E_e= 0mW/cm^2
LTR-S971-TB	Dark	Yes	4	100	0.4	30

Phototransistors_SMD Type



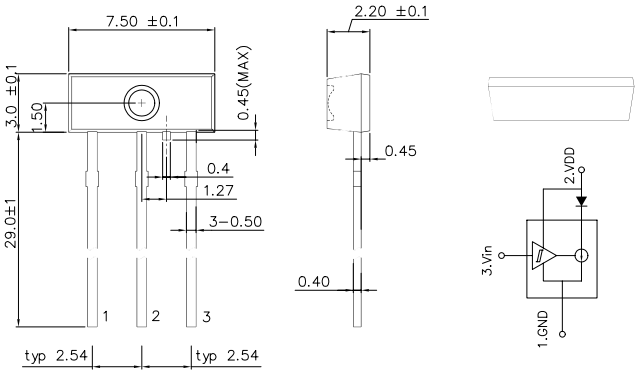
3.0 x 2.0 x 1.0 mm



Part No.	Lens Color	Visable Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @V_{CE}=5V; E_e=0.5mW/cm^2; λ=940nm	Max. Dark Current (nA) @ V_{CE}=20V	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ I_c=100μA E_e= 0.5mW/cm^2	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ I_c=100μA E_e= 0mW/cm^2
LTR-S320-TB	Dark	Yes	2	100	0.4	30

Photolink_Transmitter

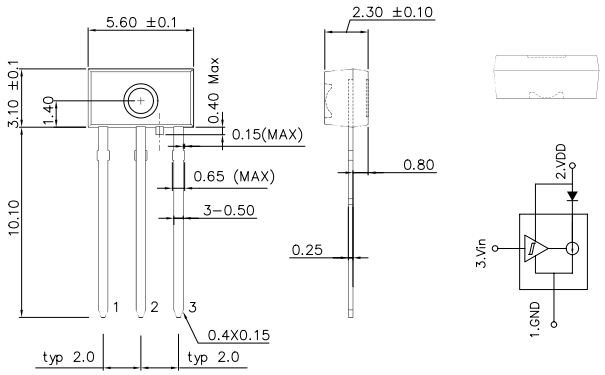
7x3



Part No.	Data Rate (Mbps)	Operating Voltage (V)		Fiber Coupling Light Output (dBm)		
		Min	Max	Min	Typ	Max
LTDL-TA16A	16	2.75	5.25	-21	-17	-15
LTDL-TA25A	25	2.75	5.25	-21	-17	-15

Photolink_Transmitter

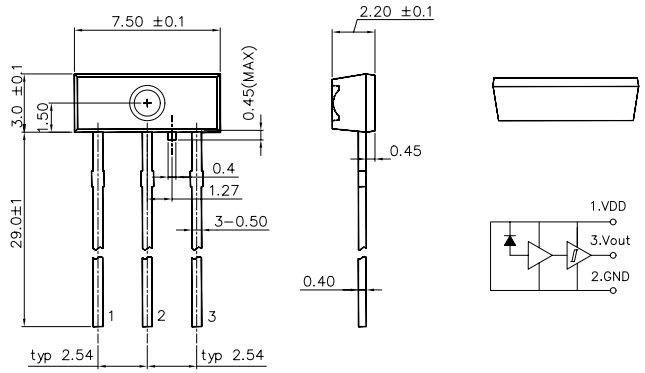
5x3



Part No.	Data Rate (Mbps)	Operating Voltage (V)		Fiber Coupling Light Output (dBm)		
		Min	Max	Min	Typ	Max
LTDL-TA25B	25	2.75	5.25	-21	-17	-15

Photolink_Transmitter

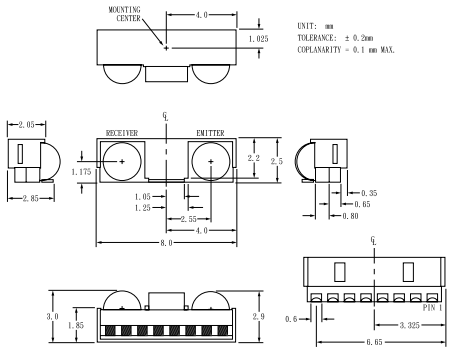
7x3



Part No.	Data Rate (Mbps)	Operating Voltage (V)		Input Sensitivity (dBm)	
		Min	Max	Min	Max
LTDL-RA16A	16	2.75	5.25	-27	-14
LTDL-RA25A	25	2.75	5.25	-24	-14

Infrared Transceiver

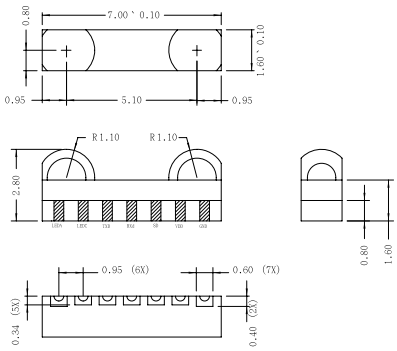
2.5 x 8.0 x 3.0 mm



Part No.	Data Rate (kbit/s)	Package Dimension (H x W x D) (mm)	Link Distance (M)	Idle Current (mA)	Shutdown Current (nA)	Receiver Latency (uS)	Sypply Voltage (V)	Front	Top	Front (Shielded)
HSDL-3201-021	115.2	2.50 x 8.00 x 3.00	0 to 0.3	0.1	20	25	2.7 to 3.6	V		-
HSDL-3201-008	115.2	2.50 x 8.00 x 3.00	0 to 0.3	0.1	20	25	2.7 to 3.6		V	-

Infrared Transceiver

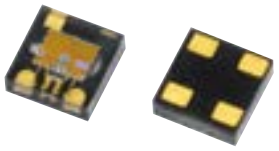
1.6 x 7.0 x 2.8 mm



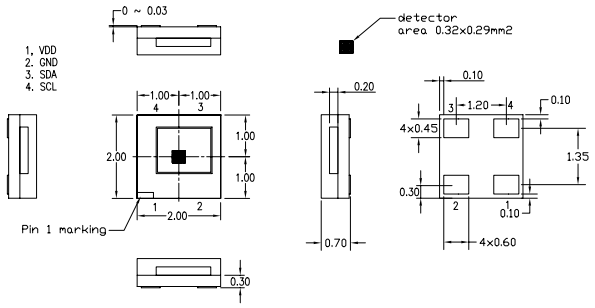
Part No.	Data Rate (kbit/s)	Package Dimension (H x W x D) (mm)	Link Distance (M)	Idle Current (mA)	Shutdown Current (nA)	Receiver Latency (uS)	Sypply Voltage (V)	Front	Top	Front (Shielded)
HSDL-3208-025	115.2	1.60 x 7.00 x 2.80	0 to 0.3	0.1	1	70	2.7 to 3.6	V	-	-
HSDL-3208-S25	115.2	1.80 x 7.40 x 2.90	0 to 0.3	0.1	1	70	2.7 to 3.6	-	-	V

Optical Sensor

Ambient Light Sensor



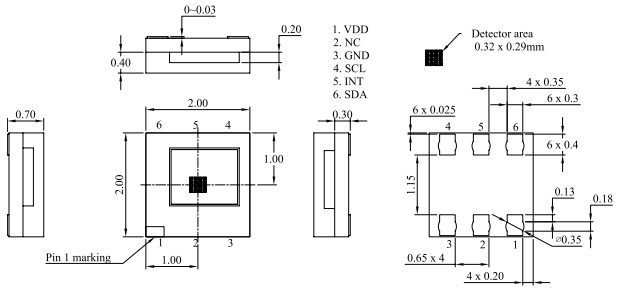
2.00 x 2.00 x 0.70 mm



Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-329ALS	Digital Light Sensor	ChipLED 4 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	No	16-bit ADC (linear)	0.01 lux to 64k lux

Ambient Light Sensor

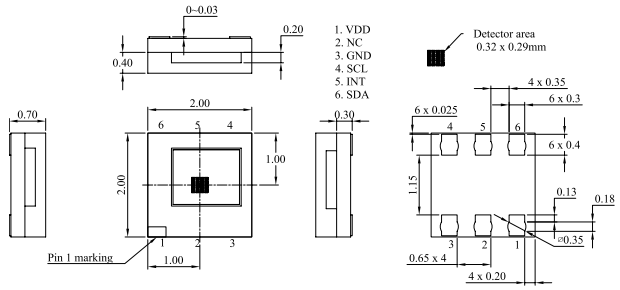
2.00 x 2.00 x 0.70 mm



Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-303ALS	Digital Light Sensor	ChipLED 6 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.01 lux to 64k lux

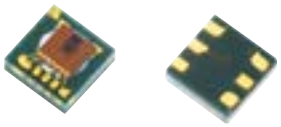
Ambient Light Sensor

2.00 x 2.00 x 0.70 mm

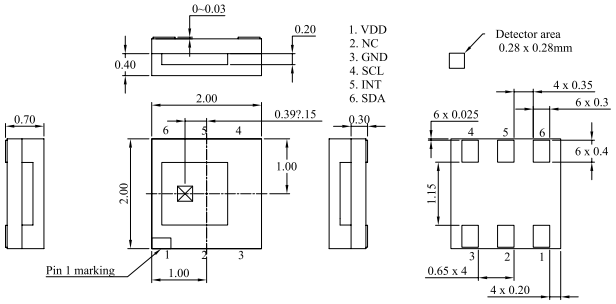


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-308ALS	Very Low Power Consumption Digital Light Sensor	ChipLED 6 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux

RGB Color Sensor

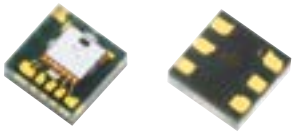


2.00 x 2.00 x 0.70 mm

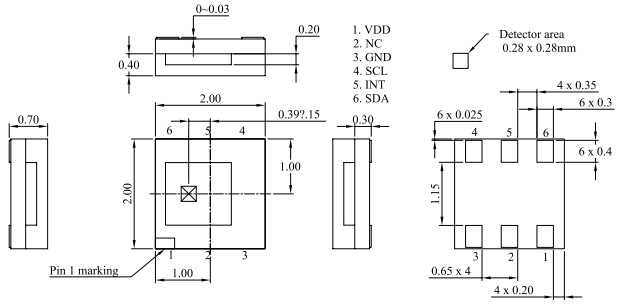


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-380RGB	RGB Sensor + Digital Light Sensor	ChipLED 6 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux

UV Sensor



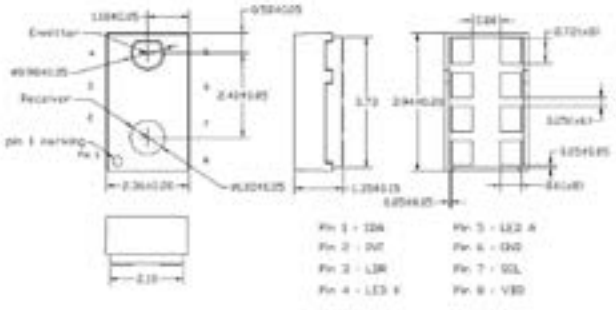
2.00 x 2.00 x 0.70 mm



Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS / UV Full Scale ADC Count	Light Range	UV Sensitivity (Count/ UVI)
LTR-390UV	UV Sensor + Digital Light Sensor	ChipLED 6 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	1400

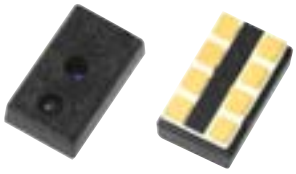
Proximity Sensor

3.94 x 2.36 x 1.35 mm

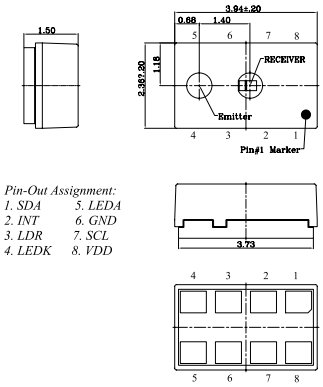


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	PS Full Scale ADC Count	Detection Range (mm)
LTR-659PS	Digital Proximity Sensor+ IR LED	ChipLED 8 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	11-bit ADC(linear)	0-100

Proximity Sensor



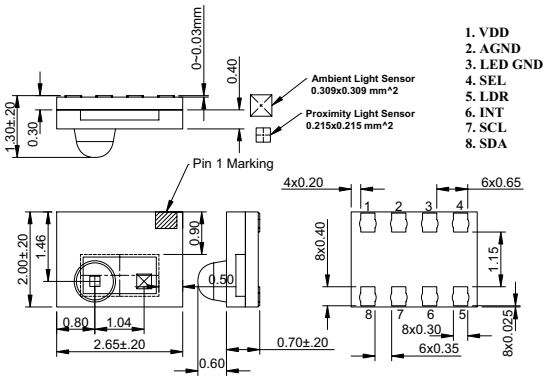
3.94 x 2.36 x 1.50 mm



Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	PS Full Scale ADC Count	Detection Range (mm)
LTR-676PS	Digital Proximity Sensor+ IR LED (Small Window)	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 11-bit ADC(linear)	0-100

2-in-1 Integrated Sensor

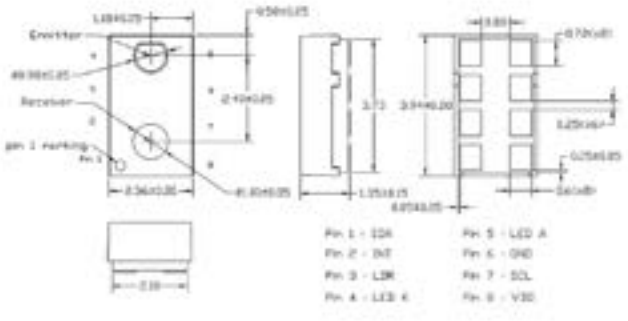
2.65 x 2.00 x 1.30 mm



Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-507ALS	(2-in-1) Digital Light Sensor+Long Distance Proximity Sensor+LED Driver	ChipLED 8 pins	-40 to +85	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 64k lux	11-bit ADC(linear)	0-500

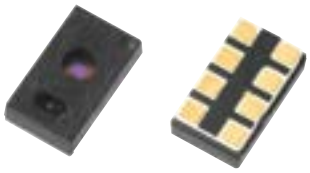
3-in-1 Integrated Sensor

3.94 x 2.36 x 1.35 mm

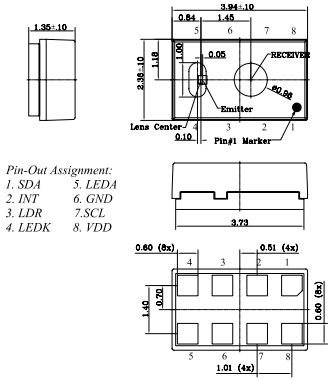


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-559ALS	(3-in-1) Digital Light Sensor+Proximity Sensor+IR LED	ChipLED 8 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.01 lux to 64k lux	11-bit ADC(linear)	0-100

3-in-1 Integrated Sensor

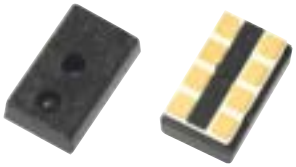


3.94 x 2.36 x 1.35 mm

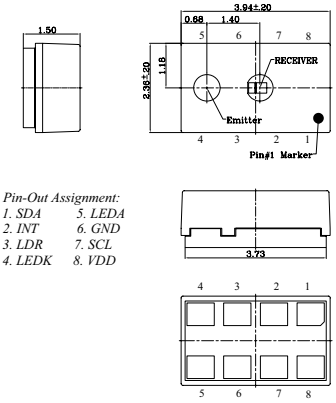


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-578ALS	(3-in-1, Small Window, FOV = +/- \40deg) Digital Light Sensor+Proximity Sensor+IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

3-in-1 Integrated Sensor



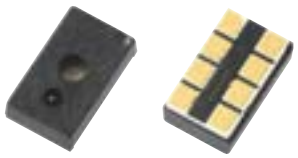
3.94 x 2.36 x 1.35 mm



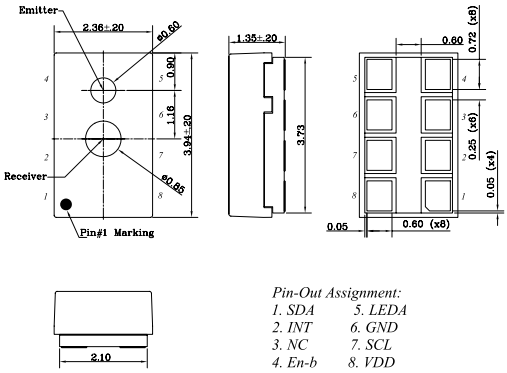
Pin-Out Assignment:
1. SDA 5. LEDA
2. INT 6. GND
3. LDR 7. SCL
4. LEDK 8. VDD

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-579ALS	(3-in-1, Small Window, FOV = +/-24deg)Digital Light Sensor+Proximity Sensor+IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

3-in-1 Integrated Sensor



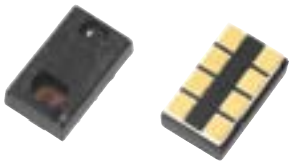
3.94 x 2.36 x 1.35 mm



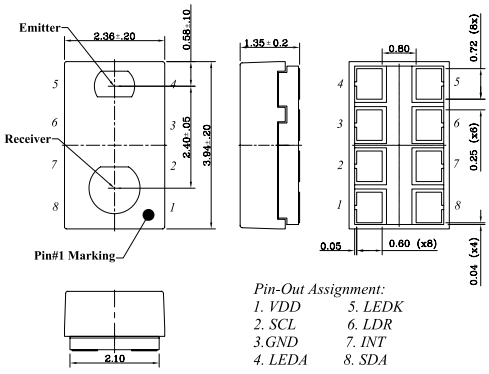
Pin-Out Assignment:
1. SDA 5. LEDA
2. INT 6. GND
3. NC 7. SCL
4. En-b 8. VDD

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-778ALS	(3-in-1, Small Window, FOV = +/-36deg)Digital Light Sensor+Proximity Sensor+VCSEL	ChipLED 8 pins	-30 to +70	2.7 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.005 lux to 12k lux	11-bit ADC(linear)	0-100

4-in-1 Integrated Sensor



3.94 x 2.36 x 1.35 mm

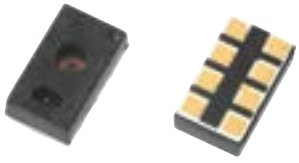


Pin-Out Assignment:

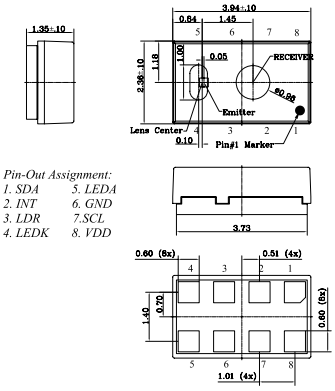
1. VDD	*5. LEDK*
2. SCL	*6. LDR*
3.GND	*7. INT*
4. LEDA	*8. SDA*

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-580RGB	RGB Sensor+ Digital Light Sensor+ Proximity Sensor+ IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

4-in-1 Integrated Sensor



3.94 x 2.36 x 1.35 mm

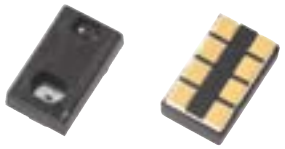


Pin-Out Assignment:

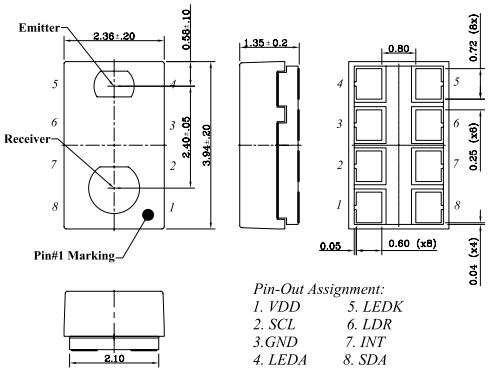
1. SDA	*5. LEDA*
2. INT	*6. GND*
3. LDR	*7.SCL*
4. LEDK	*8. VDD*

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-588RGB	RGB Sensor+ Digital Light Sensor + Proximity Sensor + IR LED (Small Window)	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

4-in-1 Integrated Sensor



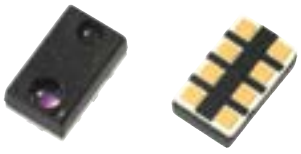
3.94 x 2.36 x 1.35 mm



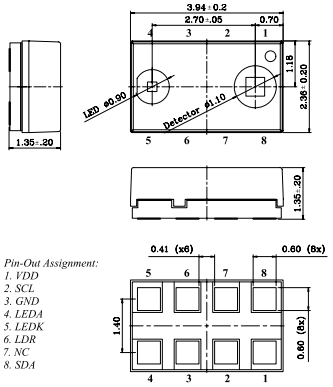
Pin-Out Assignment:
1. VDD *5. LEDK*
2. SCL *6. LDR*
3.GND *7. INT*
4. LEDA *8. SDA*

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-590UV	UV Sensor+ Digital Light Sensor + Proximity Sensor + IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

Gesture Integrated Sensor



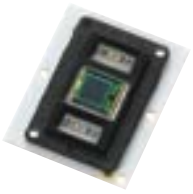
3.94 x 2.36 x 1.35 mm



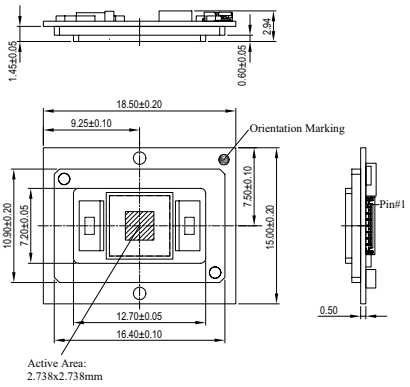
Pin-Out Assignment:
1. VDD
2. SCL
3. GND
4. LEDA
5. LEDK
6. LDR
7. NC
8. SDA

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-91400	Gesture Sensor + Digital Light Sensor + Proximity Sensor + IR LED	ChipLED 8 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.01 lux to 64k lux	PS: 11-bit ADC(linear) GS: 8-bit ADC (linear)	0-100

Heart Rate Monitoring Sensor



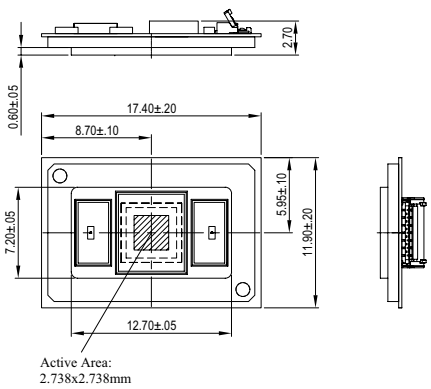
18.50 x 15.00 x 2.90 mm



Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-800HR	AFE Integrated Optical HRM Sensor	FPC connector	12	-20 to +85	3.0 to 3.6	0.76	5	I2C fast mode (400kbit/s)	Green (525nm)

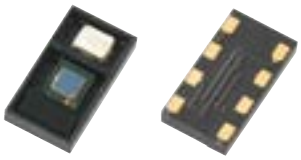
Heart Rate Monitoring Sensor

17.40 x 11.90 x 2.70 mm

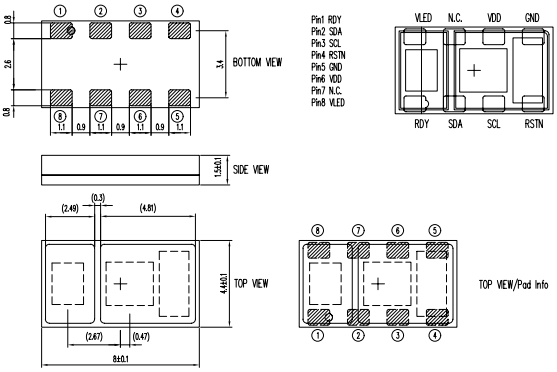


Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-801HR	AFE + Accelerometer Integrated Optical HRM Sensor (Slim Package)	FPC connector	12	-20 to +85	3.0 to 3.6	0.76	5	I2C fast mode (400kbit/s)	Green (525nm)

Heart Rate Monitoring Sensor

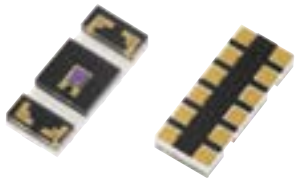


8.0 x 2.6 x 1.35 mm

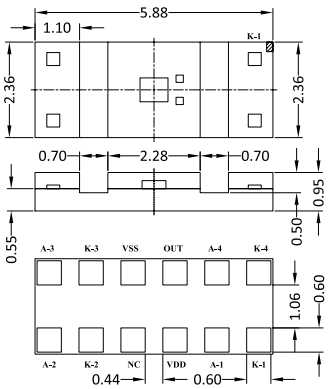


Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-806HR	AFE Integrated Optical HRM Sensor	SMT	6	-20 to +85	3.0 to 3.6	0.95	5	I2C fast mode (400kbit/s)	Green (525nm)

Heart Rate Monitoring Sensor

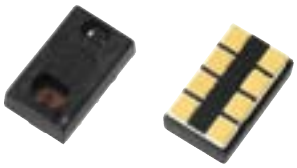


5.88 x 2.36 x 0.95 mm

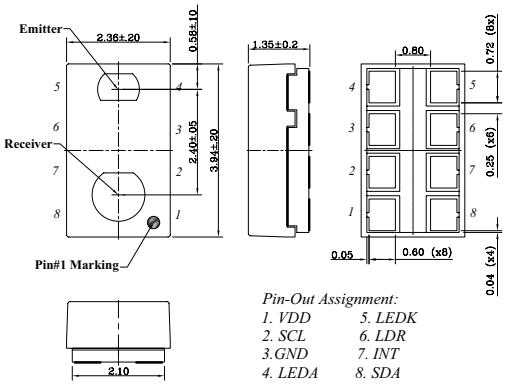


Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-810HR	Fully Integrated Analog Optical HRM Sensor with 4 Emitters	SMT	12	-20 to +85	1.5 to 5.5	N.A.	N.A.	Analog Output	Green (525nm)

Heart Rate Monitoring Sensor



3.96 x 2.36 x 1.35 mm

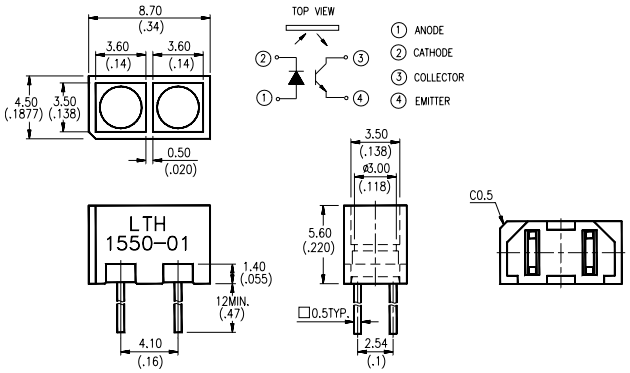


Pin-Out Assignment:

1. VDD	*5. LEDK*
2. SCL	*6. LDR*
3.GND	*7. INT*
4. LEDA	*8. SDA*

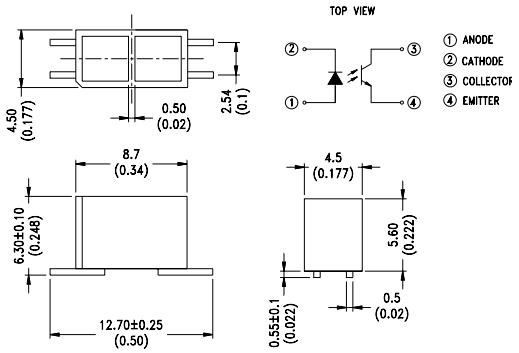
Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-820HR	Ultra Small Chipled Package Optical HRM Sensor	SMT	8	-40 to +85	1.7 to 3.6	N.A.	N.A.	I2C fast mode (400kbit/s)	IR (940nm)

Reflective Sensor



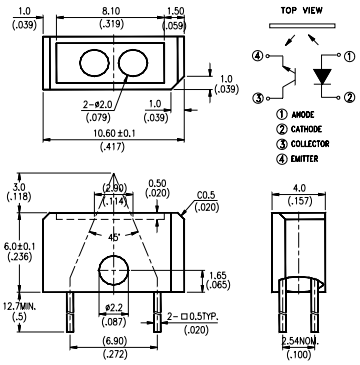
Part No.	Features	Focal Distance (mm)	Ic Min.(uA) @I_F=20mA /V_{CE}=5V
LTH-1550-01	Phototransistor output, PCB mounting	3.5	200

Reflective Sensor



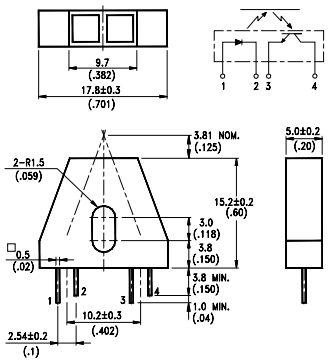
Part No.	Features	Focal Distance (mm)	Ic Min.(uA) @I_F=20mA /V_{CE}=5V
LTH-1550-06	Lead bends for surface mounting	3.5	750

Reflective Sensor



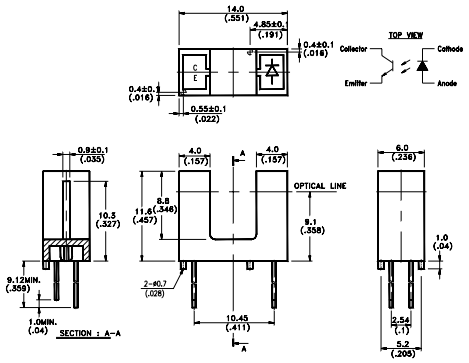
Part No.	Features	Focal Distance (mm)	Ic Min.(uA) @I_F=20mA /V_{CE}=5V
LTH-1650-01	Phototransistor output, PCB mounting	3	100

Reflective Sensor



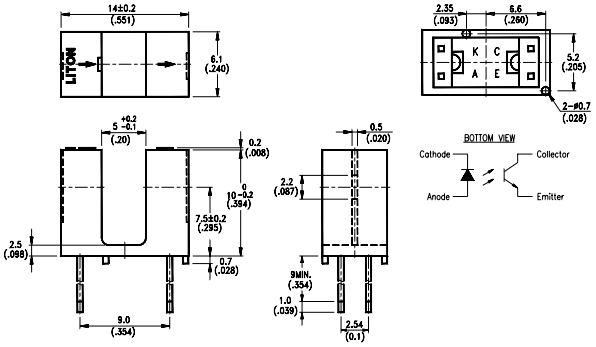
Part No.	Features	Focal Distance (mm)	Ic Min.(uA)@I_F=20mA /V_{CE}=5V
LTH-209-01	Phototransistor output, PCB mounting	3.81	160

Transmissive Sensor_Slotted Type



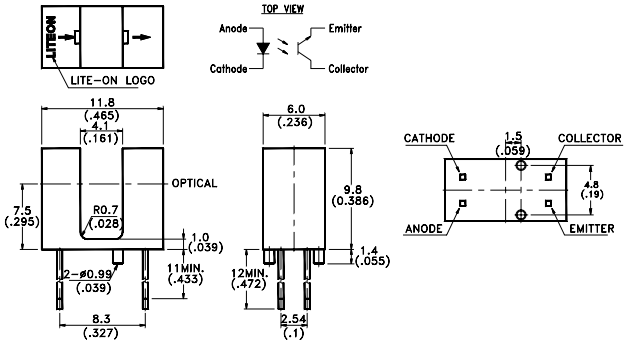
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301-05	Phototransistor output, PCB mounting type. With positioning pin	10.45	6	0.5

Transmissive Sensor_Slotted Type



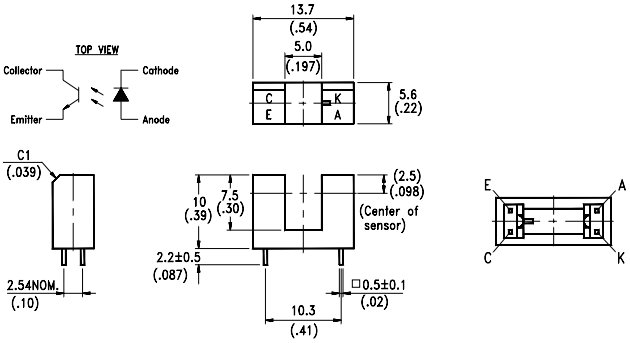
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301-07	Phototransistor output, PCB mounting type. With positioning pin	9	5	0.6

Transmissive Sensor_Slotted Type



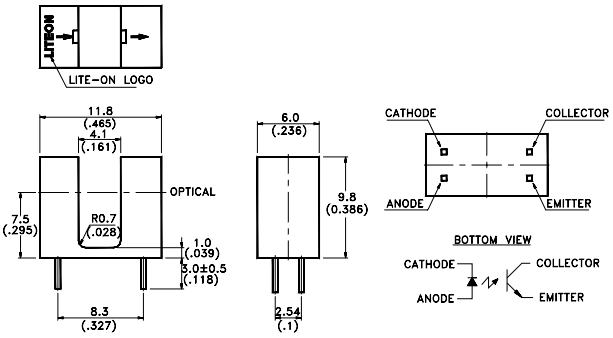
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(uA)@I_F=1.4mA /V_{CE}=3.3V
LTH-301-19	Phototransistor output, PCB mounting type. With positioning pin	8.3	4.1	70

Transmissive Sensor_Slotted Type



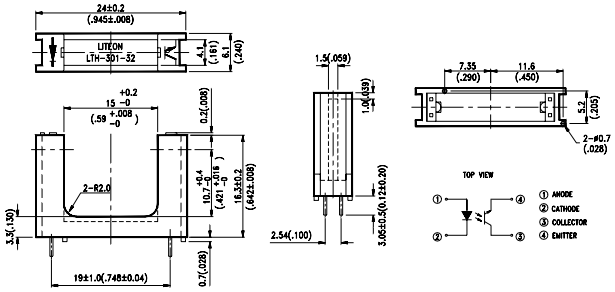
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301-23	Phototransistor output, PCB mounting type.	10.3	5	0.4

Transmissive Sensor_Slotted Type



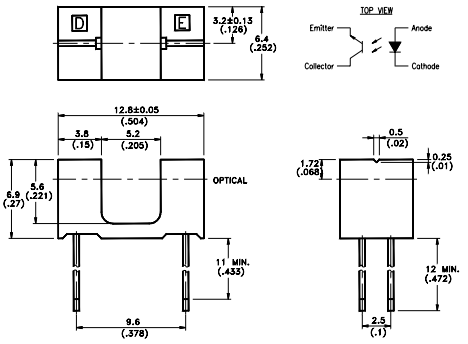
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301-27P1	Phototransistor output, PCB mounting type	8.3	4.1	1.5

Transmissive Sensor_Slotted Type



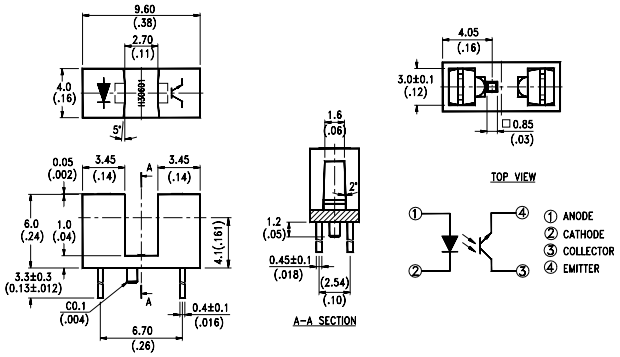
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301-32	Phototransistor output, PCB mounting type. With positioning pin, Wide gap	19	15	0.6

Transmissive Sensor_Slotted Type



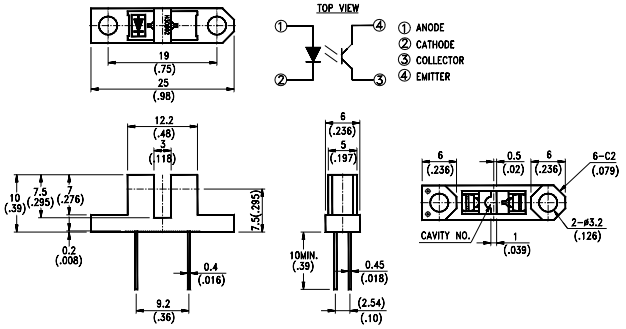
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301A	Phototransistor output, PCB mounting type	9.6	5.2	0.5

Transmissive Sensor_Slotted Type



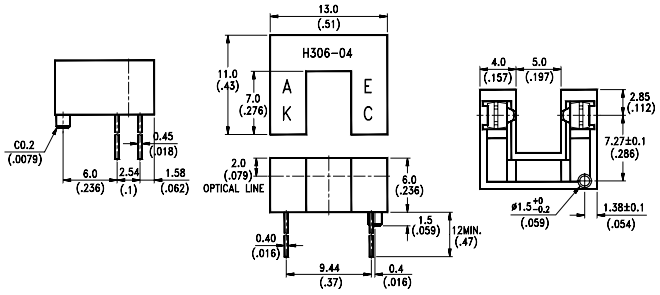
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-01	Phototransistor output, PCB mounting type. With positioning pin	6.7	2.7	5

Transmissive Sensor_Slotted Type



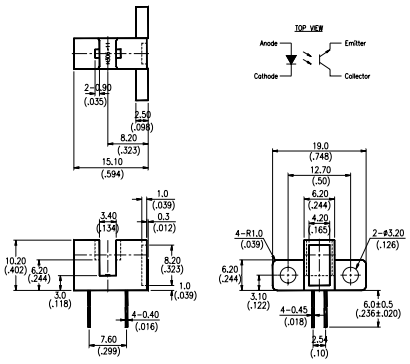
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-02	Phototransistor output, Both PCB and screw mounting type	9.2	3	0.5

Transmissive Sensor_Slotted Type



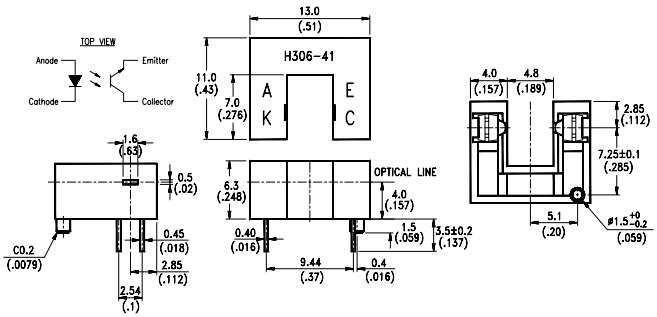
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-04	Phototransistor output, PCB mounting type. With positioning pin	9.44	5	0.5

Transmissive Sensor_Slotted Type



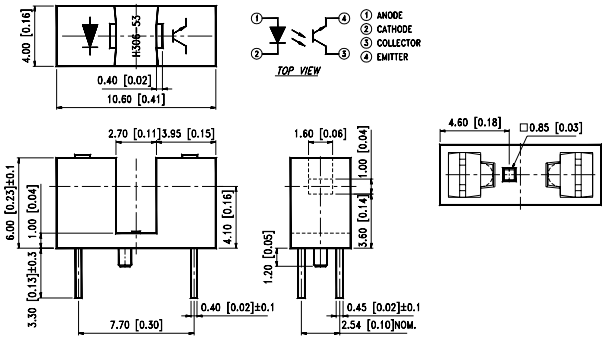
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-11	Phototransistor output, Both PCB and screw mounting type	7.6	3.4	1

Transmissive Sensor_Slotted Type



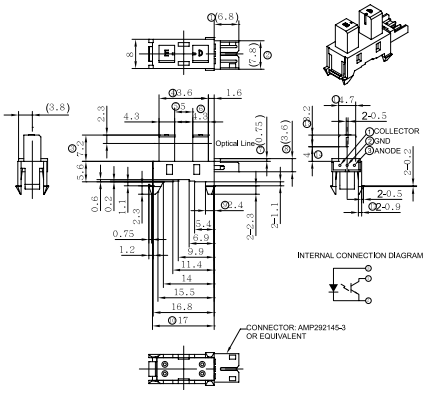
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-41P1	Phototransistor output, PCB mounting type. With positioning pin, and horizontal optical slit.	9.44	4.8	1.5

Transmissive Sensor_Slotted Type



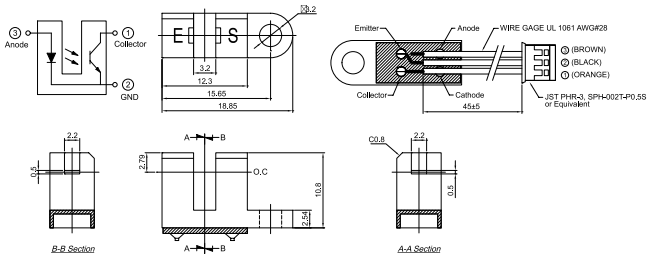
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-53P1	Phototransistor output, PCB mounting type. With positioning pin	7.7	2.7	1.2

Transmissive Sensor_Slotted Type



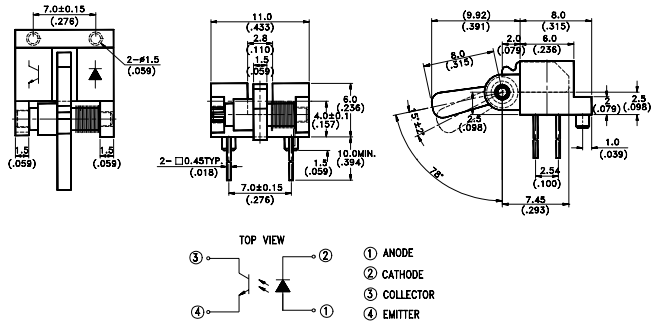
Part No.	Features	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-64	Phototransistor output, Snap PCB mounting. With a built-in connector	5	0.5

Transmissive Sensor_Slotted Type



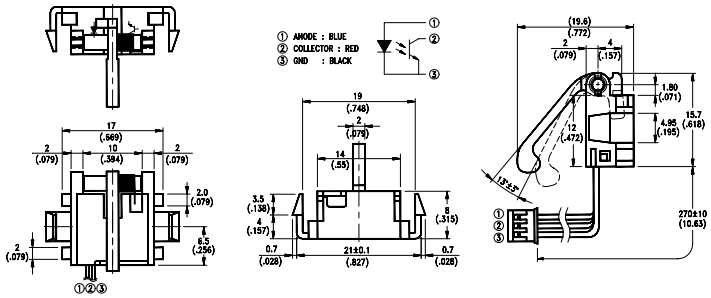
Part No.	Features	Wire Length (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-301-45W2	Phototransistor output, PCB mounting type. With positioning pin, Horizontal slit	45±5	3.2	0.5

Transmissive Sensor_Actuator Type



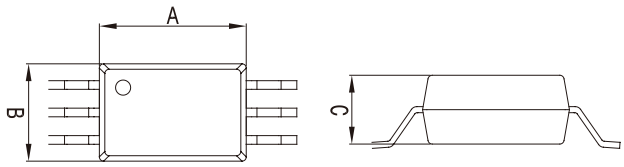
Part No.	Features	Action Angle	Lead Distance (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-09P1	With Flag, Phototransistor output, PCB mounting type	15±2°	7	0.5

Transmissive Sensor_Actuator Type



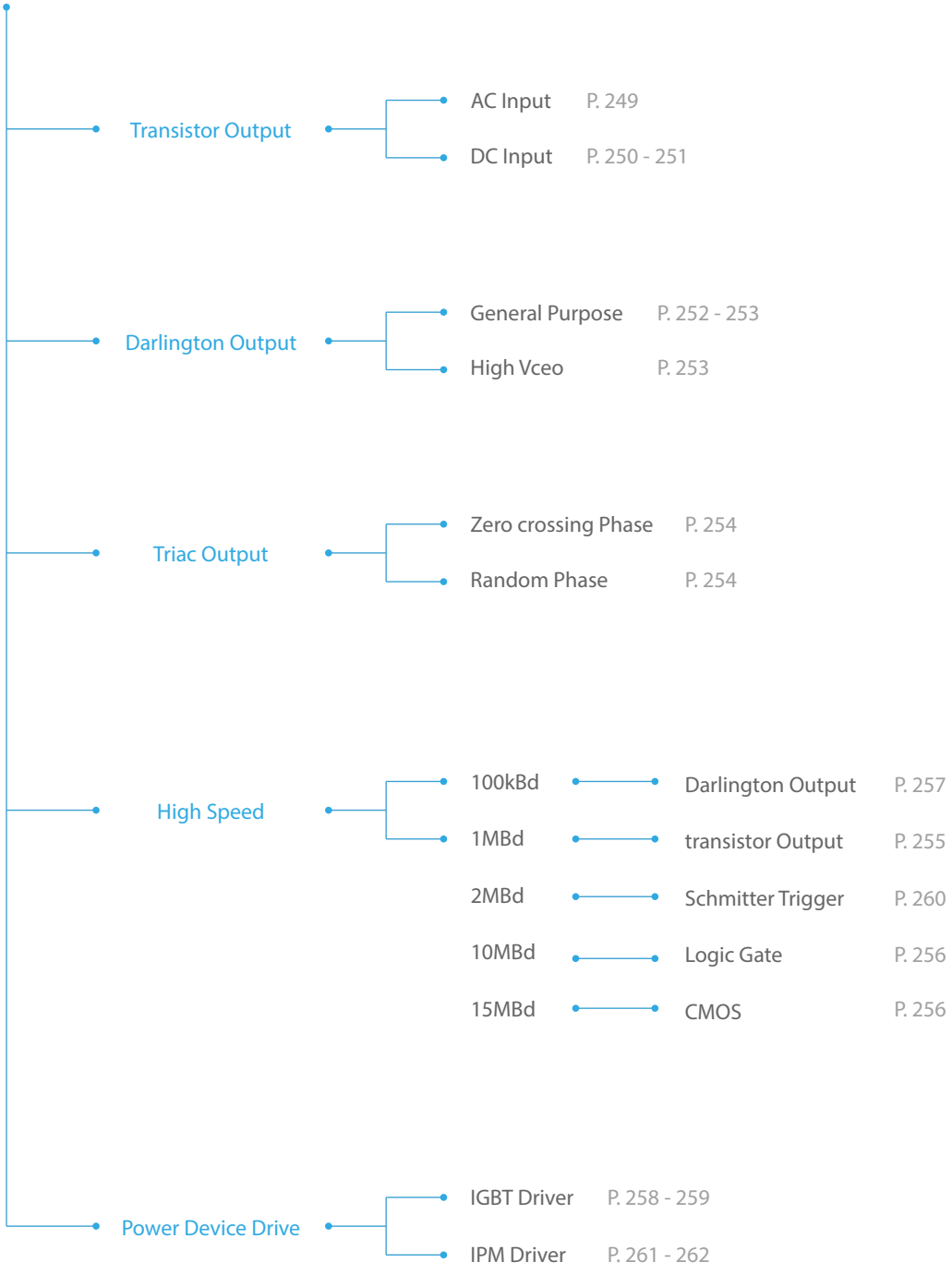
Part No.	Features	Action Angle	Wire Length (mm)	Ic Min.(mA)@I_F=20mA /V_{CE}=5V
LTH-306-06W1	With Flag, wire and connector, Phototransistor output, Snapin mounting	8±3°	270±10	0.5

Photocoupler



	package	size A x B x C
DIP4 DIP4-M DIP4-S DIP4-S2 option	DIP4	6.5 x 4.6 x 3.5
DIP6	DIP6	6.5 x 7.3 x 3.5
DIP8 DIP8-S2 option DIP7-SSR	DIP8	6.5 x 9.68 x 3.5
DIP16	DIP16	6.5 x 19.84 x 3.5
SOP4	SOP4	4.4 x 3.85 x 2.0
SOP5	SOP5	4.4 x 3.6 x 2.3
SOP8	SOP8	3.91 x 5.84 x 3.18
LSOP4	LSOP4	7.5 x 3.8 x 2.0
LSOP5 LSOP6-P type LSOP6-W type	LSOP6	6.81 x 4.5 x 3.18
SSOP4	SSOP4	4.4 x 2.6 x 2.0
SSOP8	SSOP8	4.4 x 5.2 x 2.0
SSOP16	SSOP16	4.4 x 10.28 x 2.0

Photocoupler package

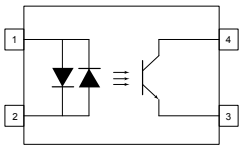
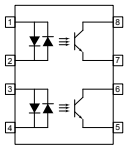
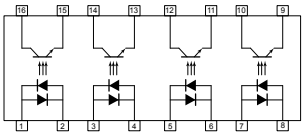
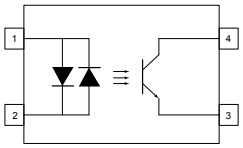
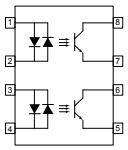
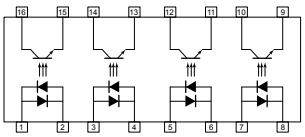
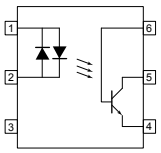


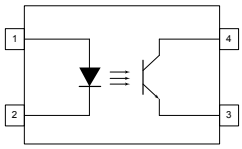
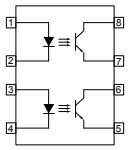
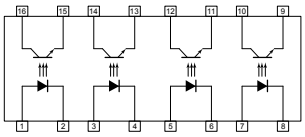
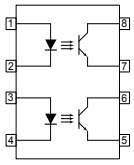
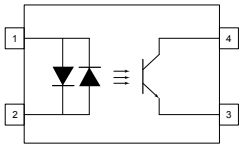
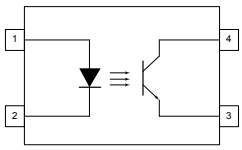
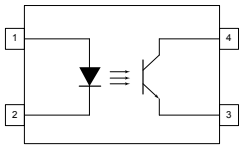
General Purpose Phototransistor Photocoupler

A general purpose Photocoupler is the most common and preferred choice for providing isolated feedback in a regulation loop. They are available in 1-channel, 2-channel and 4-channel, both DC and AC inputs, to suit the requirements of multiple isolation such as interfaces between logic circuits.

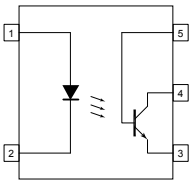
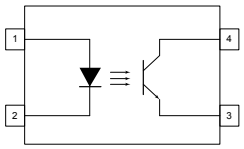
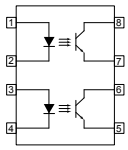
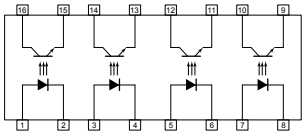
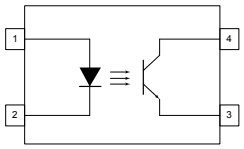
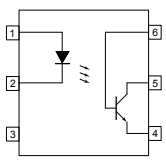
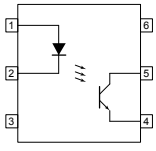
Application

- Ground loop elimination
- Interface between logic circuits
- Level shifting
- Regulation feedback circuits in SMPS

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-214		AC input, High Vceo	SSOP4	3750	80	20	400	±1
LTV-224		AC input, 2 Channels, High Vceo	SSOP8	3750	80	20	400	±1
LTV-244		AC input, 4 Channels, High Vceo	SSOP16	3750	80	20	400	±1
LTV-814		AC input	DIP4	5000	35	20	300	±1
LTV-824		AC input, 2 Channels	DIP8	5000	35	20	300	±1
LTV-844		AC input, 4 Channels	DIP16	5000	35	20	300	±1
LTV-733		AC input, With Base Connection	DIP6	5000	35	20	-	±1

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-217		DC input, High Vceo	SSOP4	3750	80	80	600	5
LTV-227		DC input, 2 Channels, High Vceo	SSOP8	3750	80	80	600	5
LTV-247		DC input, 4 Channels, High Vceo	SSOP16	3750	80	80	600	5
LTV-200		DC input, 2 Channels, High Vceo	SOP8	3750	80	20	320	10
LTV-205				3750	80	40	80	10
LTV-206				3750	80	63	125	10
LTV-207				3750	80	100	200	10
LTV-208				3750	80	160	320	10
LTV-354T		AC input	SOP4	3750	35	20	400	±1
LTV-358T		DC input, Very High Vceo	SOP4	3750	120	80	400	5
LTV-356T		DC input, High Vceo	SOP4	3750	80	50	600	5
LTV-357T		DC input	SOP4	3750	35	50	600	5
LTV-1000		DC input, High Vceo, Creepage distance >8mm	LSOP4	5000	70	50	600	5
LTV-1001				5000	70	100	160	5
LTV-1002				5000	70	22 63	125	1 10
LTV-1003				5000	70	34 100	200	1 10
LTV-1004				5000	70	100	200	5
LTV-1005				5000	70	50	150	5
LTV-1006				5000	70	100	300	5
LTV-1007				5000	70	80	160	5
LTV-1008				5000	70	130	260	5
LTV-1009				5000	70	200	400	5
LTV-1010				5000	70	150	300	5
LTV-1014				5000	70	56 160	320	1 10
LTV-1018				5000	70	100	200	1
LTV-1019				5000	70	250	500	5

General Purpose Phototransistor Photocoupler

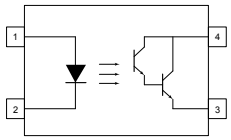
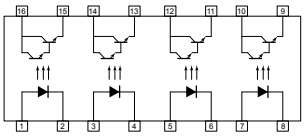
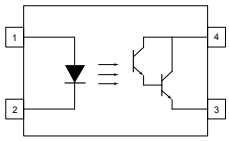
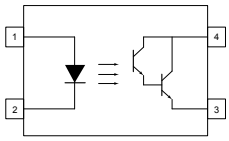
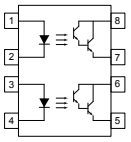
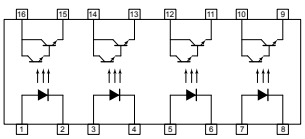
Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-1100		DC input, High Vceo, Creepage distance >8mm	LSOP5	5000	70	50	600	5
LTV-1101				5000	70	100	160	5
LTV-1102				5000	70	22 63	125	1 10
LTV-1103				5000	70	34 100	200	1 10
LTV-1104				5000	70	100	200	5
LTV-1105				5000	70	50	150	5
LTV-1106				5000	70	100	300	5
LTV-1107				5000	70	80	160	5
LTV-1108				5000	70	130	260	5
LTV-1109				5000	70	200	400	5
LTV-816		DC input, High Vceo	DIP4	5000	80	50	600	5
LTV-817		DC input	DIP4	5000	35	50	600	5
LTV-826		DC input, 2 Channels, High Vceo	DIP8	5000	80	50	600	5
LTV-827		DC input, 2 Channels	DIP8	5000	35	50	600	5
LTV-846		DC input, 4 Channels, High Vceo	DIP16	5000	80	50	600	5
LTV-847		DC input, 4 Channels	DIP16	5000	35	50	600	5
LTV-851		DC input, Very High Vceo	DIP4	5000	300	40	-	5
4N25		DC input, With Base Connection	DIP6	2500	30	20	-	10
4N26				1500	30	20	-	10
4N27				1500	30	10	-	10
4N28				500	30	10	-	10
4N35				3550	30	100	-	10
4N37				1500	30	100	-	10
CNY17-1				5000	70	40	80	10
CNY17-2				5000	70	63	125	10
CNY17-3				5000	70	100	200	10
CNY17-4				5000	70	160	320	10
LTV-702V				5000	70	40	320	10
CNY17F-1		DC input Without Base Connectiont	DIP6	5000	70	40	80	10
CNY17F-2				5000	70	63	125	10
CNY17F-3				5000	70	100	200	10
CNY17F-4				5000	70	160	320	10
LTV-702F				5000	70	40	320	10

Darlington Transistor Output Photocoupler

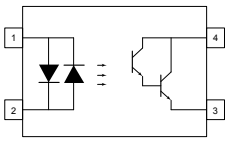
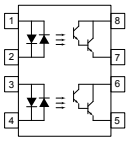
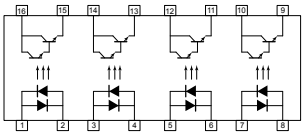
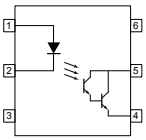
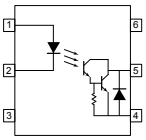
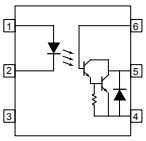
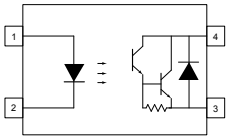
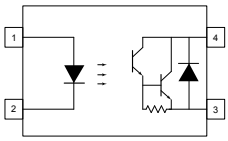
These photocouplers provide a very high current transfer ratio from a low input forward current. In addition, they are available in DC and AC inputs by DIP package as well as 2.0mm profile (mini-flat) package to increase designers' options. High input-output isolation voltage and high collector-emitter voltage also add to the benefits for many power distribution applications.

Application

- Hybrid substrates that require high density mounting
- Telephone sets
- Copiers, facsimiles
- Interfaces with various power supply circuits, power distribution boards

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-215		DC input	SSOP4	3750	40	200	-	1
LTV-245		DC input, 4 Channels	SSOP16	3750	40	200	-	1
LTV-355T		DC input	SOP4	3750	35	600	7500	1
LTV-815		DC input	DIP4	5000	35	600	7500	1
LTV-825		DC input, 2 Channels	DIP8	5000	35	600	7500	1
LTV-845		DC input, 4 Channels	DIP16	5000	35	600	7500	1

Darlington Transistor Output Photocoupler

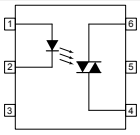
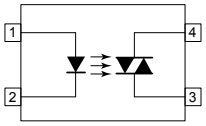
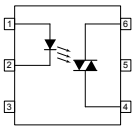
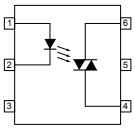
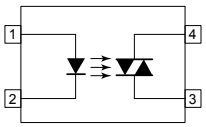
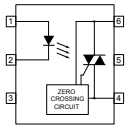
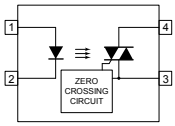
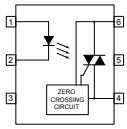
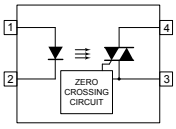
Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-8141		AC input	DIP4	5000	35	600	7500	±1
LTV-8241		AC input, 2 Channels	DIP4	5000	35	600	7500	±1
LTV-8441		AC input, 4 Channels	DIP4	5000	35	600	7500	±1
LTV-715F		DC input Without Base Connection	DIP6	5000	35	600	7500	1
LTV-725F		DC input, Very High Vceo With Base Connection	DIP6	5000	300	1000	15000	1
LTV-725V		DC input, Very High Vceo With Base Connection	DIP6	5000	300	1000	15000	1
LTV-352T		DC input, High Vceo	SOP4	3750	300	1000	-	1
LTV-852		DC input, High Vceo	DIP4	5000	300	1000	15000	1

Triac Output Photocoupler

Triac output photocouplers provide a high isolation voltage between input and output Viso of 3,750 Vrms (SOP)/5,000Vrms(DIP6). With two options of zerocrossing and non-zero crossing type of triac driver output, it will provide flexibility for circuit designers.
Other benefits include high Off-State Output Terminal Voltage (400V, 600V & 800V) and high critical rate of rise of off-state voltage (min 1000V/μs).

Application

- AC Motor Drives
- AC Motor Starters
- E.M. Contactors
- Lighting Controls
- Solenoid/Valve Controls
- Solid State Relays
- Static Power Switches
- Temperature Controls

Part No.	Device	Feature	Package	Viso(Vrms)	Off-State Output Vdrm(V)	Trigger Current IFT(mA)
MOC3023		400V VDRM, Random phase	DIP6	5000	400	5
LTV-3023		400V VDRM, Random phase	SOP4	3750	400	5
MOC3052-L		600V VDRM, Random phase	DIP6	5000	600	5
MOC3052-H		800V VDRM, Random phase	DIP6	5000	800	10
LTV-3052		600V VDRM, Random phase	SOP4	3750	600	10
MOC3063		600V VDRM, Zero-crossing	DIP6	5000	600	5
LTV-3063		600V VDRM, Zero-crossing	SOP4	3750	600	5
MOC3083		800V VDRM, Zero-crossing	DIP6	5000	800	5
LTV-3083		800 VDRM, Zero-crossing	SOP4	3750	800	5

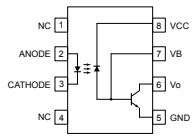
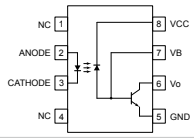
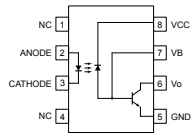
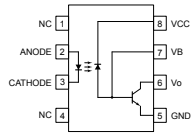
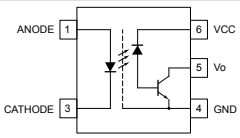
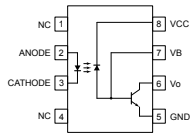
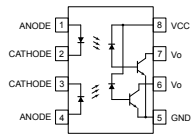
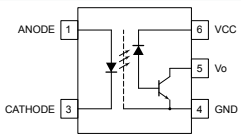
1MBd Transistor Output photocoupler

These photocouplers consist of a high efficiency AlGaAs Light Emitting Diode and a high speed optical detector. This design provides excellent AC and DC isolation between the input and output sides of the photocoupler. The connection for the bias of the photodiode improves upon the speed of a conventional phototransistor coupler by reducing the base-collector capacitances. The internal shield ensures high common mode transient immunity. A guaranteed common mode transient immunity is up to 15KV/ μ sec.

Application

- High Voltage Isolation
- Isolation in line receivers
- Feedback element in switching mode power supplies
- Power transistor isolation in motor drives
- Interface between Microprocessor system, computer and their peripherals

- Replace pulse transformers
- Replace slower photocoupler isolators

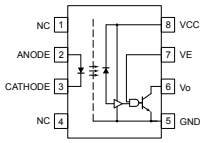
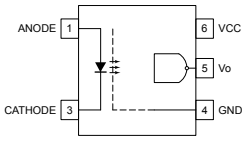
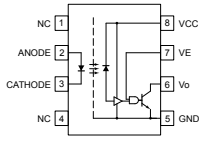
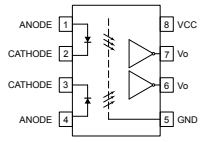
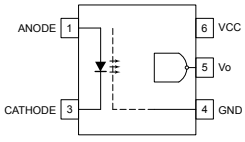
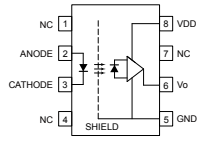
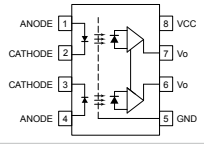
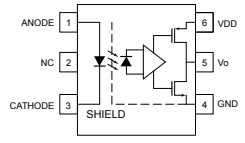
Part No.	Device	Feature	Package	V_{DD}(V) max.	CTR min(%)	CTR max(%)	$I_{F(on)}$ (mA)	tPLH (us)	tPHL (us)	CM_L CM_H Min(V)	Viso min (Vrms)
6N135-L		DC Input	DIP8	15	7	50	16	1.5	1.5	1000	5000
6N136-L		DC Input	DIP8	15	19	50	16	0.8	0.8	1000	5000
6N135-H		DC Input	DIP8	30	7	50	16	1.5	1.5	10000	5000
6N136-H		DC Input	DIP8	30	19	50	16	0.8	0.8	10000	5000
LTV-M501		DC Input	SOP5	30	20	50	16	0.8	0.8	15000	3750
LTV-0501		DC Input	SOP8	30	19	-	16	0.8	0.8	15000	3750
LTV-053L		DC Input, Dual channel	SOP8	30	19	-	16	0.8	0.8	15000	3750
LTV-50LW LTV-50LP		DC Input	LSOP6	30	20	-	16	0.8	0.8	15000	5000

10MBd Logic Gate/ 15MBd CMOS Photocoupler

These high gain series couplers use a AlGaAs LED and an integrated high gain photo detector to provide an extremely high current transfer ratio between input and output. Separate pins for the photodiode and output stage result in TTL compatible saturation voltage and high speed operation. Where desired the Vcc and Vo terminals may be tied together to achieve conventional photo Darlington operation. A base access terminal allows a gain bandwidth adjustment to be made.

Application

- High Voltage Isolation
- Isolation in line receivers
- Ground loop elimination
- Feedback Element in Switching Mode Power Supplies
- High Speed Logic Ground Isolation – TTL / TTL, TTL / CMOS, TTL / LSTTL
- Pulse transformer replacement
- Power transistor isolation in motor drives
- Interface between Microprocessor system, computer and their peripherals

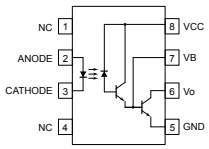
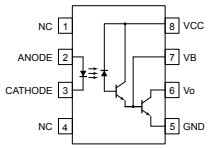
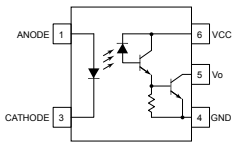
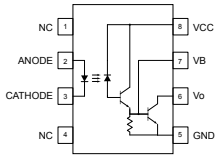
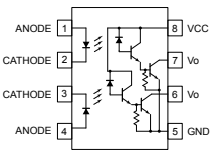
Part No.	Device	Feature	Package	V_{DD}(V)	$I_{F(on)}$ min(mA)	tPLH(ns) Max	tPHL(ns) Max	PWD(ns) MAX	CM_L CM_H Min(V)	Viso min (Vrms)
6N137-L		DC input, 10 MBd, Logic Gate output	DIP8	3.3/5	5	90	75	35	10000	5000
LTV-M601		DC input, 10 MBd, Logic Gate output	SOP5	3.3/5	5	90	75	35	10000	3750
LTV-0601		DC input, 10 MBd, Logic Gate output	SOP8	3.3/5	5	90	75	35	10000	3750
LTV-063L		DC input, 10 MBd, Dual channel, Logic Gate output	SOP8	3.3/5	5	90	75	35	10000	3750
LTV-60LW LTV-60LP		DC input, 10 MBd, Logic Gate output	LSOP6	3.3/5	5	90	75	35	10000	5000
LTV-071L		DC input, 15MBd, Totem Pole output	SOP8	3.3/5	5	60	60	30	10000	3750
LTV-074L		DC input, 15MBd, Dual chnnel, Totem Pole output	SOP8	3.3/5	5	60	60	30	10000	3750
LTV-70LW LTV-70LP		DC input, 15MBd, Totem Pole output	LSOP6	3.3/5	5	60	60	30	10000	5000

100kBd Darlington Output Photocoupler

These high gain series couplers use a AlGaAs LED and an integrated high gain photo detector to provide an extremely high current transfer ratio between input and output. Separate pins for the photodiode and output stage result in TTL compatible saturation voltage and high speed operation. Where desired the Vcc and Vo terminals may be tied together to achieve conventional photo Darlington operation. A base access terminal allows a gain bandwidth adjustment to be made.

Application

- Digital logic ground isolation
- Low input current line receiver
- Telephone ring detector
- EIA-RS-232C line receiver
- Current loop receiver
- High common mode noise line receiver

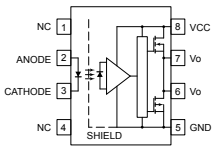
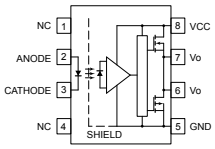
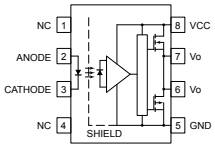
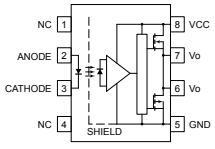
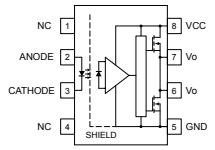
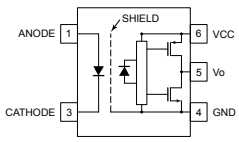
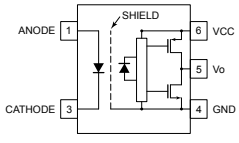
Part No.	Device	Feature	Package	V_{DD}(V)	$I_{F(on)}$ min (mA)	CTR min(%)	I_F (mA)	tPLH (us)	tPHL (us)	CM_L CM_H Min(V)	Viso min (Vrms)
6N138-L		DC input	DIP8	3.3/5	1.6	400	1.6	35	10	1000	5000
6N139-L		DC input	DIP8	3.3/5	0.5	300 500	0.5 1.6	60	25	1000	5000
LTV-M701		DC input	SOP5	3.3/5	1.6	400 500	0.5 1.6	10	2	1000	3750
LTV-0701		DC input	SOP8	3.3/5	0.5	400 500	0.5 1.6	10	2	1000	3750
LTV-073L		DC input, Dual channel	SOP8	3.3/5	0.5	400 500	0.5 1.6	60	25	1000	3750

Integrated Gate Drive Photocoupler

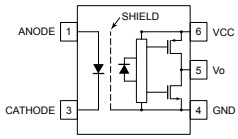
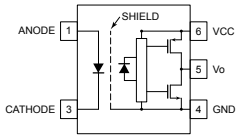
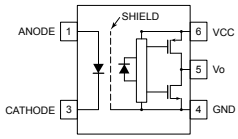
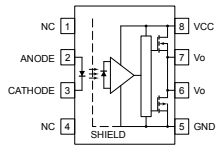
These photocouplers are ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains an AlGaAs LED optically coupled to an integrated circuit with a power output stage. The 2.5A~3A peak output current is capable of directly driving most IGBTs with ratings up to 1200 V/100 A. The photocoupler operational parameters are guaranteed over the temperature range from -40°C ~ +105°C.

Application

- IGBT/MOSFET gate drive
- Uninterruptible power supply (UPS)
- Industrial Inverter
- Motor Dirve
- Induction Heat Cooker

Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	Peak Output Current min(A)	Peak Output Current max(A)	tPLH (us) Max	tPHL (us) Max	PWD (ns) Max	Supply Voltage (Vcc)	CM_L CM_H Min(V)	Viso min (Vrms)
LTV-3120		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	2	2.5	0.5	0.5	70	15-35	25000	5000
LTV-3150		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	0.8	1	0.2	0.2	70	15-35	25000	5000
LTV-3150-L		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	0.8	1	0.2	0.2	70	10-35	25000	5000
LTV-3180		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	2	2.5	0.2	0.2	70	10-35	25000	5000
LTV-T350		DC Input, Direct drive of a medium-power, Low power dissipation	DIP8	7	2	2.5	0.5	0.5	200	15-35	25000	5000
LTV-152		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP5	7	2	2.5	0.17	0.19	70	10-35	20000	3750
LTV-155E		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP5	7	0.8	1	0.2	0.2	70	10-35	20000	3750

Integrated Gate Drive Photocoupler

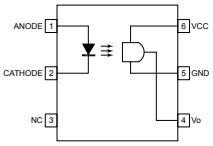
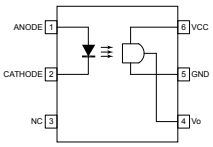
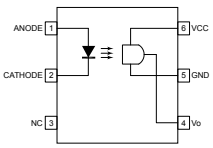
Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	Peak Output Current min(A)	Peak Output Current max(A)	tPLH (us) Max	tPHL (us) Max	PWD (ns) Max	Supply Voltage (Vcc)	CM_L CM_H Min(V)	Viso min (Vrms)
LTV-341W LTV-341P		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	2.5	3	0.2	0.2	70	15-35	35000	5000
LTV-340W LTV-340P		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	0.8	1	0.2	0.2	70	15-35	35000	5000
LTV-314W LTV-314P		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	0.8	1	0.2	0.2	70	10-35	25000	5000
LTV-0314		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP8	7	0.8	1	0.2	0.2	70	10-35	25000	3750

Schmitt Trigger

Liteon H11Lx-L has a high-speed integrated circuit detector (5Mbd typical) optically coupled to infrared emitting diode. The output incorporates a Schmitt Trigger which provides hysteresis for noise immunity and pulse shaping.

Application

- ◆ Logic to logic isolator
- ◆ Programmable current level sensor
- ◆ Line receiver—eliminate noise and transient problems
- ◆ A.C. to TTL conversion—square wave shaping
- ◆ Digital programming of power supplies
- ◆ Interfaces computers with peripherals

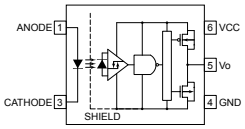
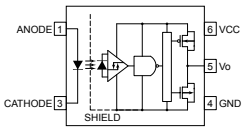
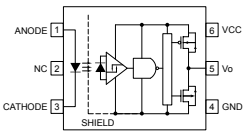
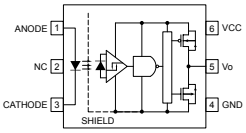
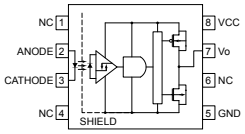
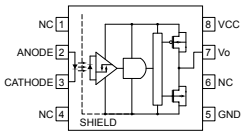
Part No.	Device	Feature	Package	IF_{ON} max (mA)	Turn-on time max(us)	Turn-off time max(us)	Data rate (Mbd)	V_{CC} (V)	Viso (Vrms)
H11L1-L		DC input	DIP6	1.6	1	1	2	3-16	5000
H11L2-L		DC input	DIP6	10	1	1	2	3-16	5000
H11L3-L		DC input	DIP6	5	1	1	2	3-16	5000

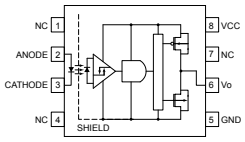
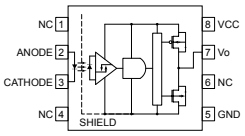
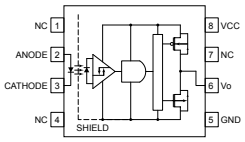
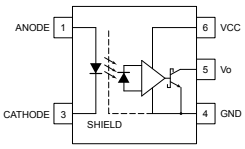
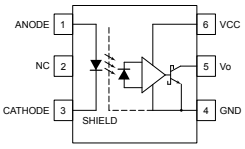
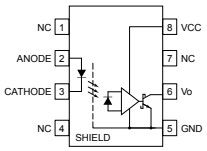
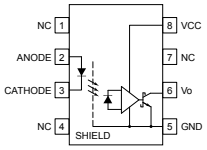
Intelligent Power Module Interface Photocoupler

Lite-On offers photocouplers ideal for isolated interfacing to an intelligent power module (IPM). IPM-drive photocouplers are available with an output in open-collector and inverting and noninverting totem-pole configurations. Therefore, you can find optimal photocouplers that best fit your needs, regardless of the input configuration (active level) of the driven IPM.

Application

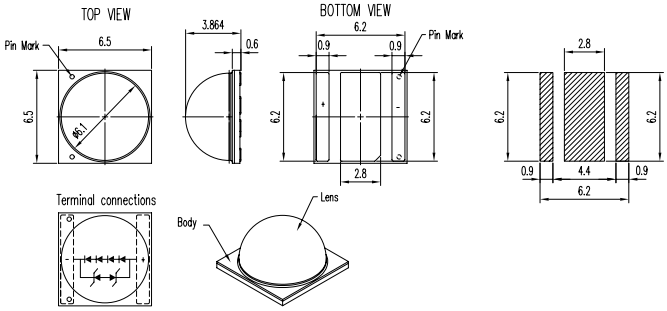
- Intelligent power module
- Inverter/Motor control
- Power switch design
- General purpose digital isolation

Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	I_O min (mA)	CTR min(%)	CTR max(%)	I_F (mA)	tPLH (us)	tPHL (us)	P_{DD} max (us)	V_{CC} max (V)	CM_H Min (V)	Viso (Vrms)
LTV-M480		DC Input, IPM Totem Pole output, buffer logic	SOP5	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	3750
LTV-M481		DC Input, IPM Totem Pole output, Inverted logic	SOP5	4	160	-	-	-	0.16	0.16	0.16	35	20000	3750
LTV-480W LTV-480P		DC Input, IPM Totem Pole output, buffer logic	LSOP6	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-481W LTV-481P		DC Input, IPM Totem Pole output, Inverted logic	LSOP6	4	160	-	-	-	0.16	0.16	0.16	35	20000	5000
LTV-0480		DC Input, IPM Totem Pole output, buffer logic	SOP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	3750
LTV-0481		DC Input, IPM Totem Pole output, Inverted logic	SOP8	4	160	-	-	-	0.16	0.16	0.16	35	20000	3750

Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	I_O min (mA)	CTR min(%)	CTR max(%)	I_F (mA)	tPLH (us)	tPHL (us)	P_{DD} max (us)	V_{CC} max (V)	CM_L CM_H Min (V)	Viso (Vrms)
LTV-4800		DC Input, IPM Totem Pole output, buffer logic	DIP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-4800-7		DC Input, IPM Totem Pole output, buffer logic	DIP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-4801		DC Input, IPM Totem Pole output, Inverted logic	DIP8	4	160	-	-	-	0.16	0.16	0.16	35	20000	5000
LTV-M456		DC Input, IPM open collector output	SOP5	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	3750
LTV-456W LTV-456P		DC Input, IPM open collector output	LSOP6	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	5000
LTV-0456		DC Input, IPM open collector output	SOP8	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	3750
LTV-4506		DC Input, IPM open collector output	DIP8	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	5000

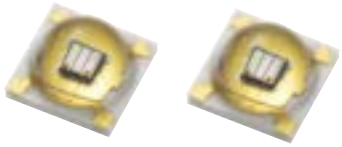
UV LED

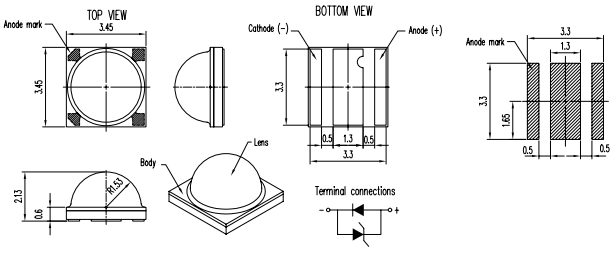
UV LED



Part No.	λp(nm)	Min. Radiant Power (mW)	Max. Radiant Power (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTPL-C08UVH365	365	2240	3340	130	15.0	500
LTPL-C08UVH375	375	2240	3340	130	14.8	500
LTPL-C08UVH385	385	3100	4200	130	14.5	500
LTPL-C08UVH395	395	3100	4200	130	14.0	500
LTPL-C08UVH405	405	3100	4200	130	14	500

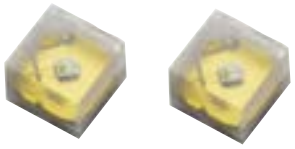
UV LED

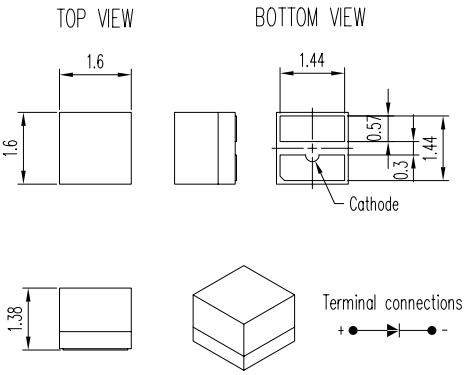




Part No.	λp(nm)	Min. Radiant Power (mW)	Max. Radiant Power (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTPL-C034UVD365	365	380	530	130	4.0	350
LTPL-C034UVH365	365	560	900	130	4.0	500
LTPL-C034UVD375	375	380	530	130	4.0	350
LTPL-C034UVH375	375	560	900	130	3.8	500
LTPL-C034UVD385	385	510	660	130	3.8	350
LTPL-C034UVH385	385	775	1135	130	3.7	500
LTPL-C034UVD395	395	460	660	130	3.6	350
LTPL-C034UVH395	395	775	1135	130	3.5	500
LTPL-C034UVD405	405	460	660	130	3.5	350
LTPL-C034UVH405	405	775	1135	130	3.4	500
LTPL-C034UVH430	430	775	1135	130	3.4	500

UV LED





Part No.	λp(nm)	Min. Radiant Power (mW)	Max. Radiant Power (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTPL-C16FUVM365	365	14	26	135	3.5	20
LTPL-C16FUVM375	375	14	26	135	3.5	20
LTPL-C16FUVM385	385	16	28	135	3.3	20
LTPL-C16FUVM395	395	16	28	135	3.2	20
LTPL-C16FUVH400	400	440	590	135	3.3	350
LTPL-C16FUVM405	405	16	28	135	3.1	20

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: +1-410-309-0699

AVNET, INC.

COLUMBIA, MD 21046

: +1-410-423-8800
: +1-410-423-8860

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS

LINTHICUM, MD 20701

: +1-410-314-1111
: +1-410-314-1110

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

MASSACHUSETTS

A/D SALES INC.
1500 DISTRICT AVENUE, 1ST & 2ND FLOORS BURLINGTON, MA 01803
: +1-978-851-5400
: +1-978-851-5555

ARROW ELECTRONICS
WILMINGTON, MA 01887
: +1-800-444-0050
: +1-978-694-6671

AVNET, INC.
PEABODY, MA 01960
: +1-800-665-2895
: +1-800-447-0602

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
WOBURN, MA 01801
: +1-781-376-1551
: +1-781-376-0104

FUTURE ELECTRONICS
BOLTON, MA 01740
: +1-978-779-3000
: +1-978-779-3050

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

MICHIGAN

SAND DRIVE SALES
5301 SAND DRIVE WEST OLIVE, MI 49460
: +1-616-399-2362
+1-616-405-3322 (CELL)

ARROW ELECTRONICS
PLYMOUTH, MI 48170
: +1-734-455-0850
: +1-734-455-6656

AVNET, INC.
PLYMOUTH, MI 48170
: +1-734-416-5800
: +1-734-416-4106

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
FARMINGTON HILLS, MI 48331
: +1-248-489-1179
: +1-248-489-1030

FUTURE ELECTRONICS
GRAND RAPIDS, MI 49512
: +1-616-698-6800
: +1-616-698-2155

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

MINNESOTA

JOHNSON COMPANY
1775 OLD HIGHWAY 8 SUITE 110 NEW BRIGHTON, MN 55112
: +1-651-429-2544
: +1-651-429-3104

ARROW ELECTRONICS
EDEN PRARIE, MN 55344
: +1-952-828-5350
: +1-952-828-5399

AVNET, INC.
BLOOMINGTON, MN 55431
: +1-952-346-3000
: +1-952-881-9461

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
CHANHASSEN, MN 55317
: +1-952-934-9100
: +1-952-934-6700

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

MISSISSIPPI

REP INC.
11535 GILLELAND ROAD HUNTSVILLE, AL 35803 (CORPORATE OFFICE)
: +1-256-881-9270
: +1-256-882-6692

ARROW ELECTRONICS
HUNTSVILLE, AL 35805
: +1-256-864-3300
: +1-256-864-3349

AVNET, INC.
MADISON, AL 35758
: +1-256-774-2600
: +1-256-774-2624

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
HUNTSVILLE, AL 35805
: +1-256-532-2200
: +1-256-532-2210

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

MISSOURI

JOHNSON COMPANY
1775 OLD HIGHWAY 8 NW, SUITE 110 NEW BRIGHTON, MN 55112
: +1-651-429-2544
: +1-651-429-3104

AVNET, INC
EARTH CITY, MO 63045
: +1-314-770-6300
: +1-314-770-6363

MONTANA

ENGLISH DAMCO SALES
753 W. POTOMAC DR. MURRAY, UT 84123
: +1-801-281-8626
: +1-801-281-8628

ARROW ELECTRONICS
SALT LAKE CITY, UT 84119
: +1-801-973-8555
: +1-801-973-8909

AVNET, INC.
SALT LAKE CITY, UT 84121
: +1-801-365-3800
: +1-801-365-3821

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
SALT LAKE CITY, UT 84106
: +1-801-467-4448
: +1-801-467-3604

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

NEBRASKA

JOHNSON COMPANY
1775 OLD HIGHWAY 8 SUITE 110 NEW BRIGHTON, MN 55112
: +1-651-429-2544
: +1-651-429-3104

AVNET, INC
OVERLAND PARK, KANSAS 66210
: +1-913-663-7900
: +1-913-663-7979

NEVADA (NORTH)

EWING-FOLEY, INC (SACRAMENTO, CA)
13620 LINCOLN WAY, SUITE 100 AUBURN, CA 95603
: +1-530-885-6591
: +1-530-885-6594

ARROW ELECTRONICS
ROSEVILLE, CA 95661
: +1-916-797-3200
: +1-916-772-4220

AVNET, INC.
ROSEVILLE, CA 95678
: +1-916-724-2104
: +1-916-724-2110

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
RENO, NV 89502
: +1-916-783-7877
: +1-916-783-7988

MOUSER ELECTRONICS
BUDD LAKE, NJ 07828
: +1-973-448-0050
: +1-973-448-3753

NEVADA (SOUTH)

REPTRONIX LTD.
7353 E. 6TH AVENUE SCOTTSDALE, AZ 85251
: +1-602-230-2630
: +1-602-431-1087

ARROW ELECTRONICS
TEMPE, AZ 85281
: +1-602-966-6600
: +1-602-966-4826

AVNET, INC
PHOENIX, AZ 85034
: +1-480-643-2000
: +1-800-257-0568

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
RENO, NV 89502
: +1-775-826-2500
: +1-775-826-2664

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

NEW HAMPSHIRE

A/D SALES INC.
1500 DISTRICT AVENUE, 1ST & 2ND FLOORS
BURLINGTON, MA 01803
: +1-978-851-5400
: +1-978-851-5555

ARROW ELECTRONICS
WILMINGTON, MA 01887-1018
: +1-978-658-7920
: +1-978-661-6595

AVNET, INC.
PEABODY, MA 01960
: +1-800-665-2895
: +1-800-447-0602

BREVAN ELECTRONICS
MERRIMACK, NH 03054
: +1-603-429-1900
: +1-603-429-1001

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
AMHERST, NH 03031
: +1-603-672-9761
: +1-603-672-4762

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

NEW JERSEY (LOWER)

ASTRO REP MID ATLANTIC, INC.
1756 FOXWOOD DRIVE JAMISON, PA 18929
: +1-215-284-1539
: +1-215-343-2052

AVNET, INC.
MT. LAUREL, NJ 08054
: +1-800-526-4812
: +1-856-222-6464

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
FLANDERS, NJ 07836
: +1-732-239-8006
: +1-631-237-4203

EDGE ELECTRONICS
HEWITT, NJ 07421
: +1-973-632-6932
: +1-631-237-4203

FUTURE ELECTRONICS
MT. LAUREL, NJ 08054
: +1-856-787-9601
: +1-856-787-9616

MOUSER ELECTRONICS
BUDD LAKE, NJ 07828
: +1-973-448-0050
: +1-973-448-3753

NEW JERSEY (UPPER)

ERA INC.
101 EISENHOWER PARKWAY, SUITE 300 ROSELAND, NJ 07068
: +1-973-794-6600
: +1-973-794-6599

ARROW ELECTRONICS
PINEBROOK, NJ 07058
: +1-973-882-8358
: +1-973-882-9109

AVNET, INC.
PARSIPPANY, NJ 07054
: +1-973-515-1641
: +1-973-515-1600

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
HEWITT, NJ 07421
: +1-973-632-6932
: +1-631-471-3405

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

NEW MEXICO

REPTRONIX

237-C EUBANK BLVD., N.E.
ALBUQUERQUE, NM 87123

: +1-505-292-1718
: +1-505-299-1611

ARROW ELECTRONICS

ALBUQUERQUE, NM 87112

: +1-505-480-6212
: +1-505-480-6212

AVNET, INC.

ALBUQUERQUE, NM 87113

: +1-505-293-5119
: +1-505-934-0146

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

NEW YORK (LOWER)

ERA INC.

101 EISENHOWER PARKWAY, SUITE 300 ROSELAND, NJ 07068

: +1-973-794-6600
: +1-973-794-6599

ARROW ELECTRONICS

WHIPPANY, NJ 07981-1027

: +1-973-265-3820
: +1-973-265-3825

AVNET, INC.

MT. LAUREL, NJ 08054

: +1-800-526-4812
: +1-856-222-6464

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS

BOHEMIA, NY 11716

: +1-800-647-3343
: +1-631-471-3405

FUTURE ELECTRONICS

HAUPPAUGE, NY 11788

: +1-631-348-4000
: +1-631-234-6183

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

NEW YORK (UPSTATE)

HARMON & SULLIVAN ASSOCIATES, IN

1490 CHILI AVE. ROCHESTER, NY 14624

: +1-585-235-3090
: +1-585-464-8191

ARROW ELECTRONICS

ROCHESTER, NY 14623

: +1-800-462-6422
: +1-585-427-0735

ARROW ELECTRONICS

SYRACUSE, NY 13214

: +1-315-233-5600
: +1-315-449-9038

ARROW ELECTRONICS

VESTAL, NY 13850

: +1-800-678-0010
: +1-607-785-5546

AVNET, INC

ROCHESTER, NY 14623

: +1-585-486-8300
: +1-585-486-8350

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS

ROCHESTER, NY 14625

: +1-585-387-9550
: +1-585-387-9563

FUTURE ELECTRONICS

SYRACUSE, NY 13212

: +1-315-451-2371
: +1-315-451-7258

MOUSER ELECTRONICS
MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

NORTH CAROLINA

REP INC.

303 WOOD STREET THOMASVILLE, NC 27360

: +1-919-908-6344
: +1-256-881-6692

ARROW ELECTRONICS

RALEIGH, NC 27609

: +1-919-876-3132
: +1-919-878-9517

AVNET, INC.

RALEIGH, NC 27606

: +1-919-859-9159
: +1-919-859-3225

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
RALEIGH, NC 27616
: +1-919-571-9942
: +1-919-571-0928

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

NORTH DAKODA

JOHNSON COMPANY
1775 OLD HIGHWAY 8 SUITE 110
NEW BRIGHTON, MN 55112
: +1-651-429-2544
: +1-651-429-3104

ARROW ELECTRONICS
EDEN PRAIRIE, MN 55344
: +1-952-828-5300
: +1-952-828-5415

AVNET, INC.
BLOOMINGTON, MN 55431
: +1-952-346-3000
: +1-952-881-9461

DIGI-KEY
THIEF RIVER FALLS,
MN 56701-0677
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
CHANHASSEN, MN 55317
: +1-952-934-9100
: +1-952-934-6700

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

OHIO

ELECTRO REPS
3458 TIMBERWOOD TRAIL
RICHFIELD, OH 44286
: +1-330-659-9200
: +1-317-569-7203

ELECTRO REPS, INC.
20799 NORTHWOOD AVE
FAIRVIEW PARK, OH 44126
: +1-440-292-6165
: +1-317-569-7203

ELECTRO REPS, INC.
55 PINEHURST PLACE
SPRINGBORO, OH 45066
: +1-937-974-5475
: +1-317-569-7203

ARROW ELECTRONICS
DAYTON, OH 45458
: +1-937-428-7319
: +1-937-428-7345

ARROW ELECTRONICS
SOLON, OH 44139
: +1-440-519-7422
: +1-440-248-5490

AVNET, INC.
SOLON, OH 44139
: +1-440-349-7600
: +1-440-248-4803

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
DAYTON, OH 45458
: +1-352-484-1650
: +1-631-471-3405

FUTURE ELECTRONICS
BEAVERCREEK, OH 45430
: +1-937-426-6090
: +1-937-426-8490

FUTURE ELECTRONICS
SOLON, OH 44139
: +800-515-0090
: +937-426-8490

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

OKLAHOMA

RAM ELECTRONIC SALES
16901 NORTH DALLAS PARKWAY
#210 ADDISON, TX 75001
: +1-469-533-2610
: +1-469-533-2611

ARROW ELECTRONICS
TULSA, OK 74146
: +1-918-252-7537
: +1-918-254-1687

AVNET, INC.
TULSA, OK 74146
: +1-918-459-6000
: +1-918-459-6060

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS

TULSA, OK 74136

: +1-918-492-1500
: +1-918-492-4848

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

OREGON

ARROW ELECTRONICS

BEAVERTON, OR 97005

: +1-503-629-8090
: +1-503-645-0611

AVNET, INC.

PORTLAND, OR 97223

: +1-503-452-6900
: +1-503-452-6999

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS

PORTLAND, OR 97223

: +1-503-789-4912
: +1-631-471-3405

FUTURE ELECTRONICS

PORTLAND, OR 97224

: +1-503-603-0956
: +1-503-603-0859

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

PENNSYLVANIA (EASTERN)

ASTRO REP MID ATLANTIC, INC.

1756 FOXWOOD DRIVE JAMISON, PA 18929

: +1-215-284-1539
: +1-215-343-2052

ARROW ELECTRONICS

HORSHAM, PA 19044

: +1-215-443-5150
: +1-215-672-2919

AVNET, INC

MT. LAUREL, NJ 08054

: +1-856-222-6400
: +1-856-222-6464

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS

MT. LAUREL, PA 19044

: +1-800-285-8873
: +1-856-787-9616

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

PENNSYLVANIA (WEST)

ELECTRO REPS, INC.

399 WAGON WHEEL TRAIL WEXFORD, PA 15090

: +1-724-612-7392
: +1-317-569-7203

ARROW ELECTRONICS

PITTSBURGH, PA 15239

: +1-724-327-1130
: +1-724-327-4181

AVNET, INC

MT. LAUREL, NJ 08054

: +1-856-222-6400
: +1-856-222-6464

DIGI-KEY

THIEF RIVER FALLS, MN 56701

: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS

WEXFORD, PA 15090

: +1-888-214-4101
: +1-724-935-1188

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

RHODE ISLAND

A/D SALES INC.

1500 DISTRICT AVENUE, 1ST & 2ND FLOORS BURLINGTON, MA 01803

: +1-978-851-5400
: +1-978-851-5555

ARROW ELECTRONICS

WILMINGTON, MA 01887

: +1-978-658-7920
: +1-978-661-6595

AVNET, INC.

PEABODY, MA 01960

: +1-800-665-2895
: +1-800-447-0602

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
BOSTON, MA 01740
: +1-978-779-3111
: +1-978-779-3199

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

SOUTH CAROLINA

REP INC.
222 SOUTH BOULEVARD
ANDERSON, SC 29621
: +1-704-905-7846
: +1-864-222-8283

ARROW ELECTRONICS
RALEIGH, NC 27609
: +1-919-876-3132
: +1-919-878-9517

AVNET, INC.
RALEIGH, NC 27606
: +1-919-859-9159
: +1-919-859-3225

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
RALEIGH, NC 27616
: +1-919-571-9942
: +1-919-571-0928

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

SOUTH DAKOTA

JOHNSON COMPANY
1775 OLD HIGHWAY 8 SUITE 110
NEW BRIGHTON, MN 55112
: +1-651-429-2544
: +1-651-429-3104

ARROW ELECTRONICS
EDEN PRAIRIE, MN 55344
: +1-952-828-5300
: +1-952-828-5415

AVNET, INC.
BLOOMINGTON, MN 55431
: +1-952-346-3000
: +1-952-881-9461

DIGI-KEY CORPORATION
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

FUTURE ELECTRONICS
CHANHASSEN, MN 55317
: +1-952-934-9100
: +1-952-934-6700

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

TEXAS

RAM ELECTRONIC SALES - DALLAS
2301 OHIO DRIVE, SUITE 250
PLANO, TX 75093
: +1-972-985-5566
: +1-972-985-5577

RAM ELECTRONIC S ALES - HOUSTON
5102 TARNBROOK DRIVE
HOUSTON, TX 77084
: +1-713-305-3654

RAM ELECTRONIC SALES - AUSTIN
PMB 101 2800 E. WHITESTONE BLVD, SUITE 120 CEDAR PARK, TX 78613
: +1-512-250-5082
: +1-512-250-0421

ARROW ELECTRONICS
HOUSTON, TX 77042
: +1-713-784-9953
: +1-713-953-9953

ARROW ELECTRONICS
PLANO, TX 75093
: +1-972-985-6600
: +1-972-985-6602

AVNET, INC.
AUSTIN, TX 78727
: +1-512-219-3700
: +1-512-219-3737

AVNET, INC.
DALLAS, TX 75243
: +1-214-553-4300
: +1-214-553-4395

AVNET, INC.
HOUSTON, TX 77027
: +1-713-627-9800
: +1-713-629-3939

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
CARROLLTON, TX 75007
: +1-972-323-7977
: +1-972-323-8530

FUTURE ELECTRONICS
AUSTIN, TX 78731
: +1-512-502-0991
: +1-512-502-0740

FUTURE ELECTRONICS
HOUSTON, TX 77042
: +1-713-785-1155
: +1-713-785-4558

FUTURE ELECTRONICS
PLANO, TX 75075
: +1-469-467-0080
: +1-469-467-0078

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

TEXAS - EL PASO

BORDER GROUP
5326 ROCKWOOD ROAD EL PASO, TX 79932
: +1-915-581-7920
: +1-915-581-7920

ARROW ELECTRONICS
EL PASO, TX 79922
: +1-915-834-6100
: +1-915-834-6101

AVNET, INC.
EL PASO, TX 79906
: +1-956-345-6370
: +1-512-287-4052

DIGI-KEY
THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
CAROLTON, TX 75007-4469
: +1-972-323-7977
: +1-631-650-3514

FUTURE ELECTRONICS
EL PASO, TX 79935
: +1-800-444-0050
: +1-514-695-3707

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

TENNESSEE

REP INC.
11535 GILLELAND ROAD
HUNTSVILLE, AL 35803
(CORPORATE OFFICE)
: +1-256-881-9270
: +1-256-882-6692

ARROW ELECTRONICS
HUNTSVILLE, AL 35805
: +1-256-864-3300
: +1-256-864-3349

AVNET, INC.
MADISON, AL 35758
: +1-256-774-2600
: +1-256-774-2624

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THIEF RIVER FALLS, MN 56701
: +1-218-681-6674
: +1-218-681-3380

EDGE ELECTRONICS
FRANKLIN, TN 37064
: +1-615-472-1331
: +1-631-471-3343

FUTURE ELECTRONICS
HUNTSVILLE, AL 35805
: +1-256-532-2200
: +1-256-532-2210

MOUSER ELECTRONICS
MANSFIELD, TX 76063
: +1-817-804-3888
: +1-817-804-3899

UTAH

ENGLISH DAMCO SALES
6914 S. REDWOOD ROAD SUITE 112 WEST JORDAN, UT 84084
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: +1-801-281-8628

ARROW ELECTRONICS
SALT LAKE CITY, UT 84119
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AVNET, INC.
SALT LAKE CITY, UT 84121
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: +1-801-365-3821

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SALT LAKE CITY, UT 84106

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: +1-801-467-3604

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

VERMONT

A/D SALES INC.

1500 DISTRICT AVENUE, 1ST & 2ND FLOORS BURLINGTON, MA 01803

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: +1-978-851-5555

ARROW ELECTRONICS

WILMINGTON, MA 01887

: +1-978-658-7920
: +1-1978-661-6595

AVNET, INC.

PEABODY, MA 01960

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: +1-800-447-0602

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: +1-978-779-3199

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

VIRGINIA

PINNACLE TECHNOLOGY SALES

1021 MILLCREEK DRIVE #5
FEASTERVILLE, PA 19053

: +1-215-322-8370

ARROW ELECTRONICS

PITTSBURG, PA 15239

: +1-724-327-1130
: +1-724-327-4181

AVNET, INC.

MT. LAUREL, NJ 08054

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: +1-856-222-6464

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: +1-218-681-3380

FUTURE ELECTRONICS

WEXFORD, PA 15090

: +1-724-935-9600
: +1-724-935-1188

MOUSER ELECTRONICS

BUDD LAKE, NJ 07828

: +1-973-448-0050
: +1-973-448-3753

WASHINGTON

ARROW ELECTRONICS

BELLEVUE, WA 98004

: +1-425-643-9992
: +1-425-643-9709

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: +1-425-882-7070

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: +1-218-681-3380

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: +1-206-489-3411

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: +1-817-804-3888
: +1-817-804-3899

WASHINGTON D.C.

PINNACLE TECHNOLOGY SALES

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FEASTERVILLE, PA 19053

: +1-215-322-8370

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COLUMBIA, MD 21046

: +1-410-309-0686
: +1-410-309-0699

AVNET, INC.

COLUMBIA, MD 21046

: +1-410-423-8800
: +1-410-423-8860

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: +1-218-681-3380

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LINTHICUM, MD 21090

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: +1-410-684-3291

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

WEST VIRGINIA

ELECTRO REPS, INC.

399 WAGON WHEEL TRAIL
WEXFORD, PA 15090

: +1-724-612-7392
: +1-317-569-7203

ARROW ELECTRONICS

PITTSBURG, PA 15239

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: +1-973-515-1600

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: +1-218-681-3380

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: +1-724-935-1188

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: +1-817-804-3899

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JOHNSON COMPANY

1775 OLD HIGHWAY 8 SUITE 110
NEW BRIGHTON, MN 55112

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: +1-651-429-3104
* Zip codes 540xx, 546xx thru 548xx

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: +1-952-828-5399

AVNET, INC.

BLOOMINGTON, MN 55431

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: +1-952-881-9461

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: +1-218-681-3380

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MINNETONKA, MN 55343

: +1-952-852-0032
: +1-952-294-0414

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MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

WISCONSIN

SUMER, INC.

250 NORTH SUNNY SLOPE ROAD
STE 260 BROOKFIELD, WI 53005

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: +1-262-784-1436

ARROW ELECTRONICS

ITASCA, IL 60143

: +1-630-250-0500
: +1-630-250-0916

AVNET, INC.

PEWAUKEE, WI 53072

: +1-262-513-1500
: +1-262-513-1544

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: +1-218-681-3380

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BROOKFIELD, WI 53045

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: +1-262-879-0250

MOUSER ELECTRONICS

MANSFIELD, TX 76063

: +1-817-804-3888
: +1-817-804-3899

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TORONTO

JLT & ASSOCIATES, INC

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TORONTO, ON M9B 4N4 CANADA

: +1-705-436-1625
: +1-705-730-9859

ARROW ELECTRONICS

MISSISSAUGA, ONTARIO L5T 2L6

: +1-800-235-3497
: +1-905-670-7781

AVNET ELECTRONICS

MISSISSAUGA, ON L5N 5M4

: +1-905-812-4400
: +1-905-812-4459

ELECTROSONIC

TORONTO, ONTARIO M2H 3B3

: +1-416-494-1666
: +1-416-496-3030

FUTURE ELECTRONICS

MISSISSAUGA, ONTARIO L4V 1W5

: +1-905-624-1125
: +1-905-624-1124

QUEBEC CITY

JLT & ASSOCIATES INC.

251 SECOND AVENUE OTTAWA,
ON K1S 2H8

: +1-613-565-9131
: +1-416-245-9925

ARROW ELECTRONICS

ONTARIO, CANADA K2K 2MS

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: +1-613-271-8203

AVNET ELECTRONICS

NEPEAN, ONTARIO K2E 7J5

: +1-613-226-1700
: +1-613-226-1184

ELECTROSONIC

OTTAWA, ONTARIO K1Z 8N8

: +1-613-28-8333
: +1-613-728-2263

FUTURE ELECTRONICS

OTTAWA, ONTARIO K2C 2B5

: +1-613-727-1800
: +1-613-727-9819

BRITISH COLUMBIA

DAVETEK MARKETING, INC.

444-604 COLUMBIA STREET NEW
WESTMINSTER, BC CANADA

: +1-604-430-3680
: +1-604-435-5490

ARROW ELECTRONICS

BURNABY, BC

: +1-604-630-4331
: +1-604-630-4301

AVNET INC.

BURNABY, BC

: +1-800-663-5500
: +1-604-420-5376

ELECTROSONIC

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: +1-403-255-9550
: +1-403-255-0449

ELECTROSONIC

EDMONTON, ALBERTA

: +1-780-413-0859
: +1-780-413-0992

ELECTROSONIC

RICHMOND, BC

: +1-604-273-2911
: +1-604-273-7360

ELECTROSONIC

WINNIPEG, MANITOBA

: +1-204-783-3105
: +1-204-774-7288

FUTURE ELECTRONICS

CALGARY, ALBERTA

: +1-403-219-3443
: +1-403-291-7054

FUTURE ELECTRONICS

VANCOUVER, BC

: +1-604-294-1166
: +1-604-294-1206

ALBERTA, SASKATCHEWAN & MANITOBA

DAVETEK MARKETING, INC.

105A 8988 FRASERTON COURT
BURNABY, B.C. V5J 5H8

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: +1-604-435-5490

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: +1-780-413-0859
: +1-780-413-0992

ELECTROSONIC

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: +1-604-273-2911
: +1-604-273-7360

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: +1-204-783-3105
: +1-204-774-7288

FUTURE ELECTRONICS

CALGARY, ALBERTA

: +1-403-219-3443
: +1-403-291-7054

FUTURE ELECTRONICS

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: +1-604-294-1166
: +1-604-294-1206

ARROW ELECTRONICS

BURNABY, BC

: +1-604-630-4331
: +1-604-630-4301

MEXICO

JALISCO & ALL NON BORDER STATES

PHOENIX REP SALES

TAPALPA #2 COL. VALLARTA PONIENTE C.P. 44110
GUADALAJARA, JALISCO, MEXICO

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: +52-333-123-9798

ARROW ELECTRONICS

ZAPOPAN, JALISCO 45150

: +52-333-120-2600
: +52-333-833-2291

AVNET INC.

TLAQUEPAQUE, JALISCO 45080

: +52-333-134-2300
: +52-333-133-1788

FUTURE ELECTRONICS

ZAPOPAN, JALISCO 45050

: +52-333-122-0043
: +52-333-122-6610

JUAREZ & CHIHUAHUA CITY

BORDER GROUP

5326 ROCKWOOD ROAD EL PASO, TX 79932

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ARROW ELECTRONICS

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: +52-333-122-6610

NOGALES

REPTRONIX, LTD.

2223 S. 48TH STREET TEMPE, AZ 85282

: +1-602-230-2630
: +1-602-431-1087

ARROW ELECTRONICS

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AVNET INC.

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: +52-333-134-2300
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FUTURE ELECTRONICS

ZAPOPAN, JALISCO 45050

: +52-333-122-0043
: +52-333-122-6610

TIJUANA

WEST ELECTRONIC SALES

5355 AVENIDA ENCINAS, STE 207 CARLSBAD, CA 92008

: +1-760-929-1615
: +1-760-929-1619

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: +52-333-122-6610

TEXAS BORDER ACUNA, REYNOSA, MATAMOROS, LAREDO

RAM ELECTRONIC SALES

2482 VALLE DE ARARECO JUAREZ
MEXICO 32546

: +1-915-491-3360
: +1-469-533-2611

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: +52-333-122-6610

BRAZIL

SAO PAULO

TRADECOMP

RUA SANSAO ALVES DOS SANTOS,
433 CJ61 SAO PAULO - SP
04571-090 BRASIL

: +55-11-5507-2627
: +55-11-5505-7905

ARROW ELECTRONICS

BARRA FUNDA, SP BRAZIL

: +55-11-3613 9300
: +55-11-3613 9355

AVNET ELECTRONICS

SAO PAULO, SP BRAZIL

: +55-11-5079-2150
: +55-11-5079-2160

FUTURE ELECTRONICS

CAMPINAS, SP BRAZIL

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BRANCH OFFICES

HEADQUARTERS

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Note

Note

Note

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