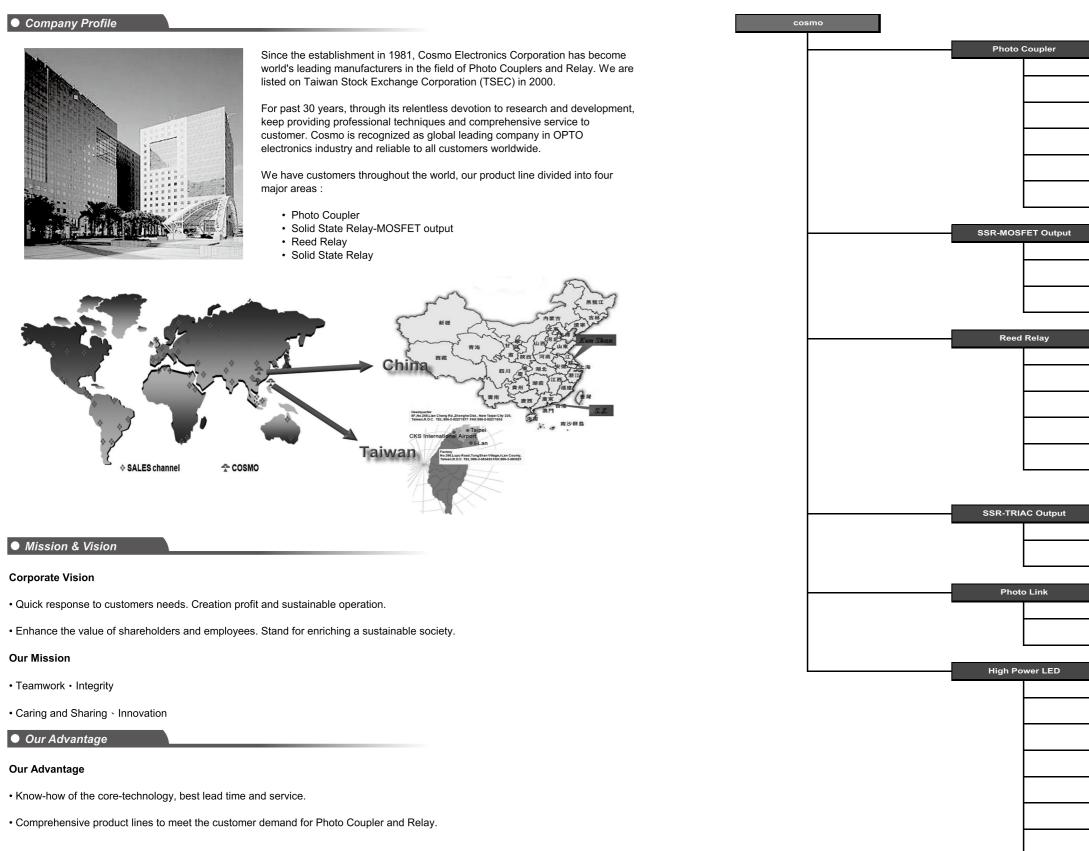


**Company Profile** 

**Product Tree** 



1



	Transistor Output
	Darlington Output
	IC Output
	High Speed Output
	TRIAC Output
	Power TRIAC Output
J	

Normal Open Type
Normal Close Type
N.C + N.O Type

• 1 Form A
1 Form B
1 Form C
2 Form A
2 Form C

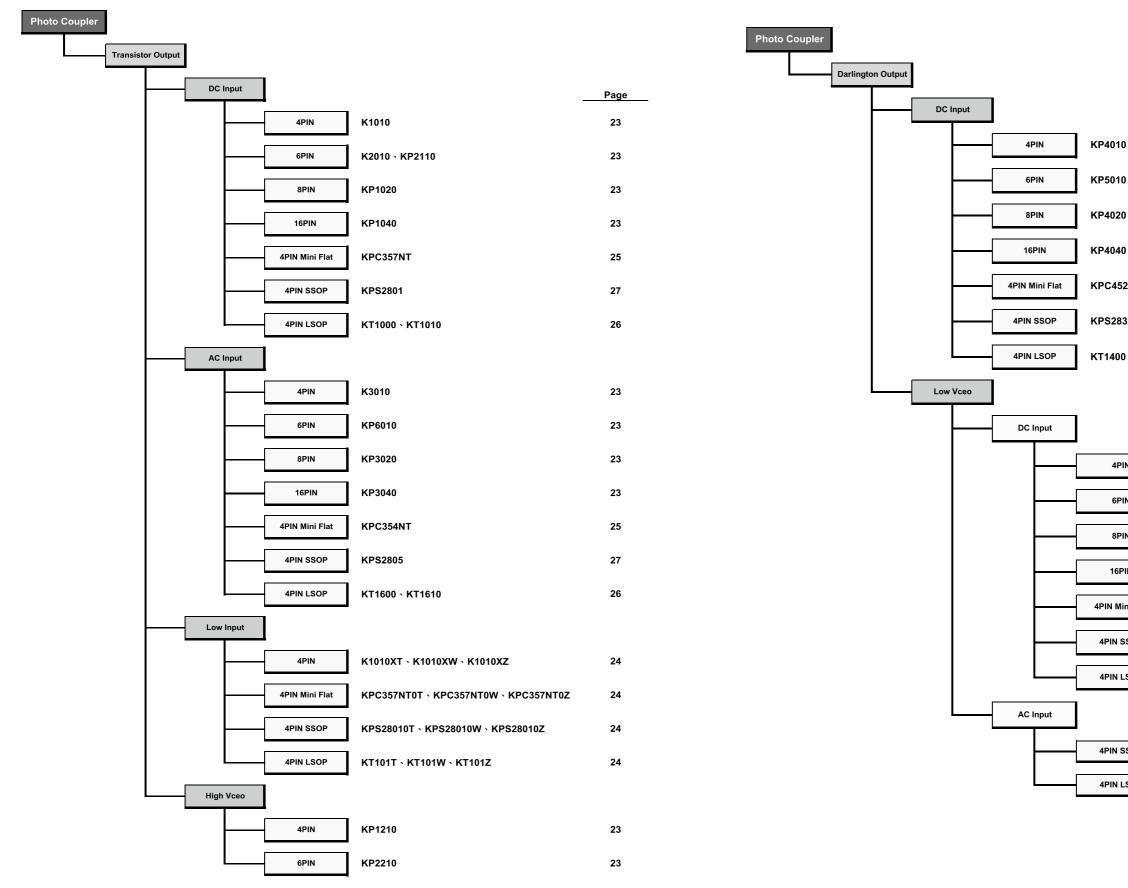
DC Input
AC Input

Transmitter
Receiver

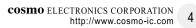
	Red
	Green
	Blue
	White
	Warm White
	Amber
	Multicolor



**Photo Coupler Product Tree** 



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4PIN SSOP	KPS2806	27
4PIN LSOP	KT1300 v KT1310	26

4PIN	KPC815
6PIN	KPC4N33
8PIN	KPC825
16PIN	KPC845
PIN Mini Flat	KPC355NT
4PIN SSOP	KPS2802
4PIN LSOP	KT1200 \ KT1210

P4010	23
P5010	23
P4020	23
P4040	23
PC452	25
PS2832	27
T1400 \ KT1410	26

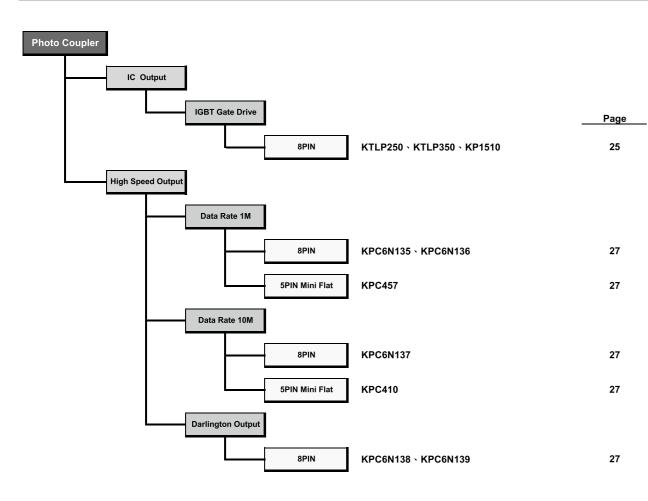
$\widehat{\mathbf{T}}$	cosmo

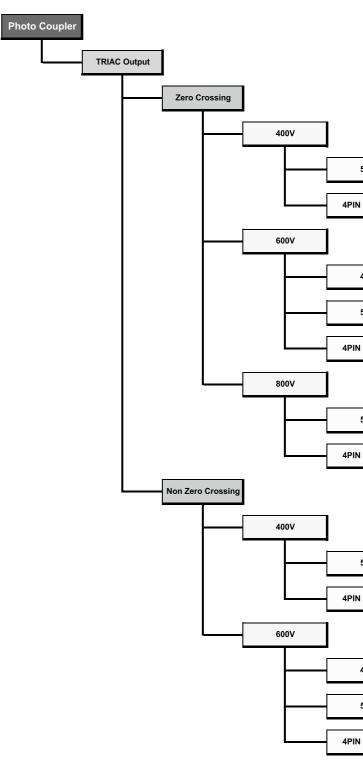
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**Photo Coupler Product Tree** 



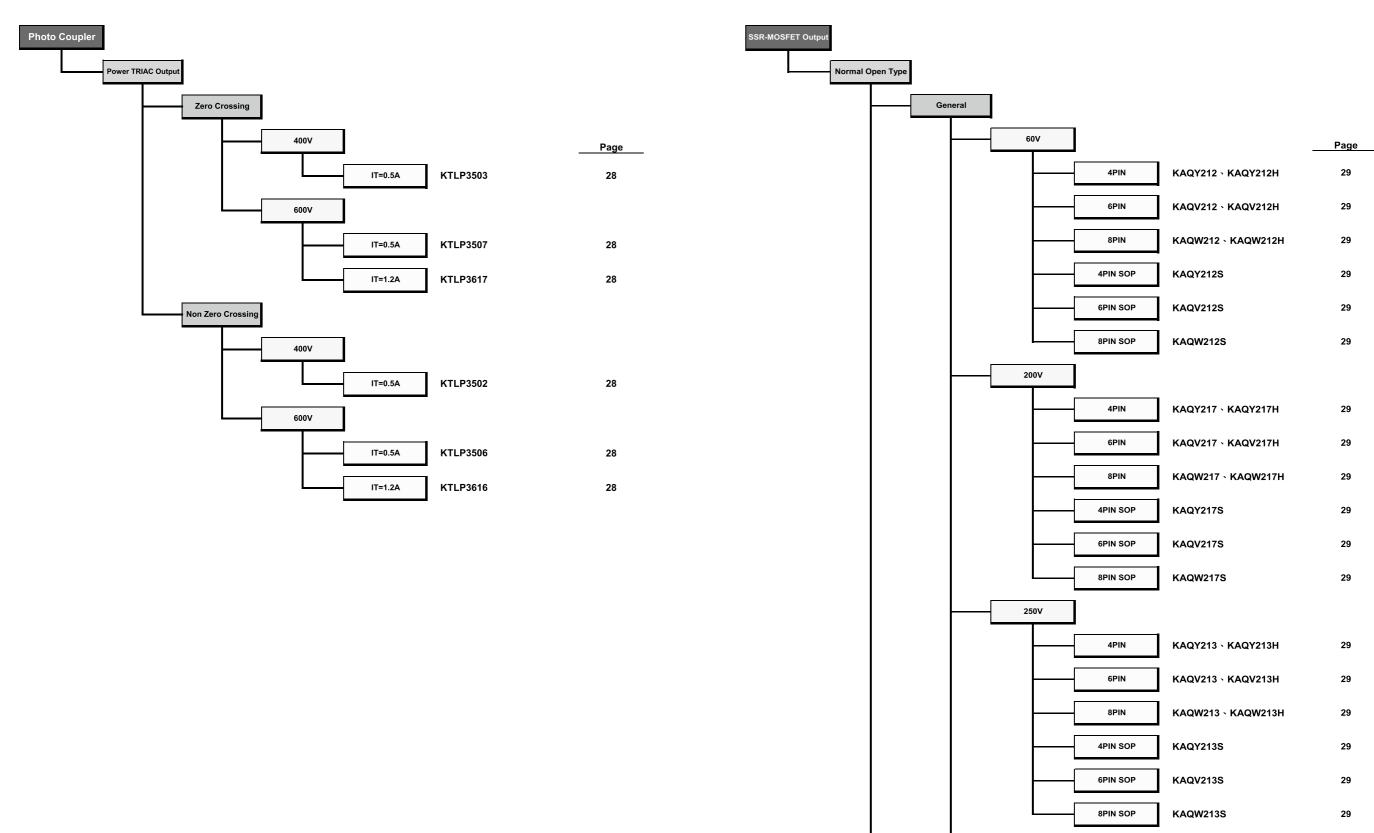




		Page
5PIN	KMOC3041 \ KMOC3042 \ KMOC3043	28
N Mini Flat	KTLP161G	28
4PIN	КМОС3012	28
5PIN	KMOC3061 × KMOC3062 × KMOC3063	28
N Mini Flat	KTLP161J、KTLP166J、 KTLP168J	28
5PIN	КМОС3081 \ КМОС3082 \ КМОС3083	28
N Mini Flat	KTLP161L	28
5PIN	КМОС3021 \ КМОС3022 \ КМОС3023	28
N Mini Flat	KTLP160G	28
4PIN	КМОС3011	28
5PIN	КМОС3051 \ КМОС3052 \ КМОС3053	28
N Mini Flat	KTLP160J、KTLP165J、 KTLP260J	28



**SSR-MOSFET Output Product Tree** 





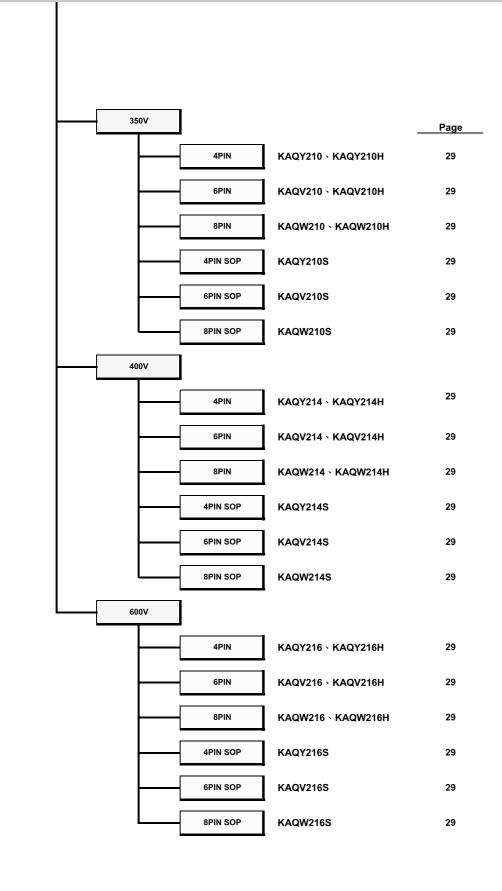
4F IN	KAQTZI/ · KAQTZI/H	
6PIN	KAQV217 \ KAQV217H	:
8PIN	KAQW217 \ KAQW217H	:
4PIN SOP	KAQY217S	:
6PIN SOP	KAQV217S	:
8PIN SOP	KAQW217S	:

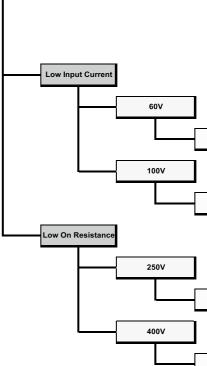
KAQY213 \ KAQY213H	29
KAQV213 \ KAQV213H	29
KAQW213 \ KAQW213H	29
KAQY213S	29
KAQV213S	29
KAQW213S	29



#### **SSR-MOSFET Output Product Tree**

**SSR-MOSFET Output Product Tree** 



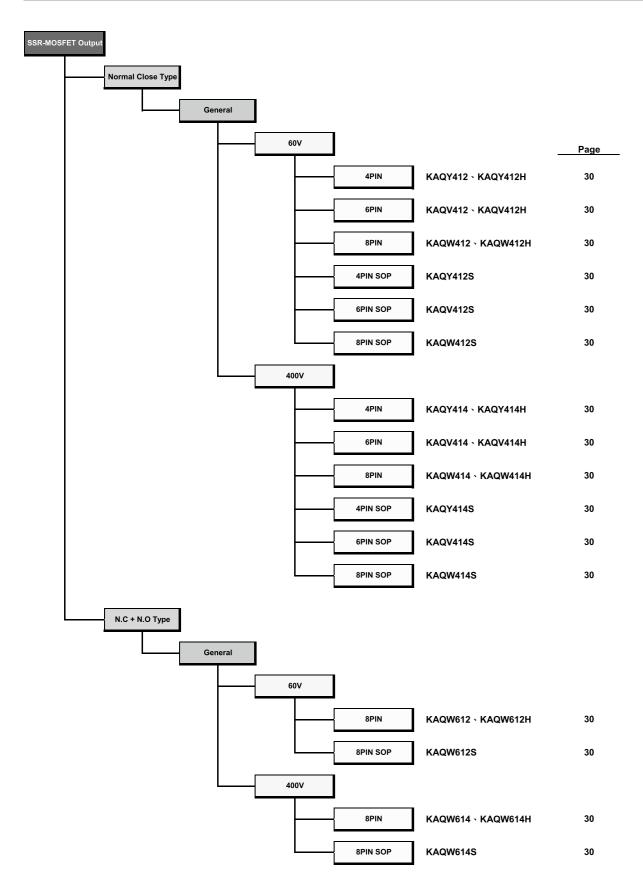


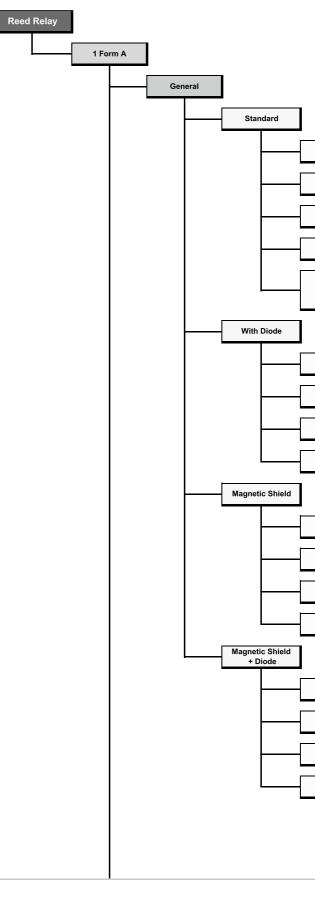


		Page
4PIN SOP	KAQY212SE \ KCP1017	30
4PIN SOP	KCP1008	30
6PIN	KAQV253 × KAQV253H	30
6PIN	KAQV254 × KAQV254H	30



**Reed Relay Product Tree** 





SS TYPE	SS1A050M00、SS1A120M00、 SS1A240M00
D TYPE	D1A050X00、D1A120X00、 D1A240X00
DH TYPE	DH1A050X00、DH1A120X00、 DH1A240X00
S TYPE	S1A050X00、S1A120X00、 S1A240X00
SS TYPE	SS1A050X00 SS1A120X00 SS1A240X00

SS1A240X00

D TYPE	D1A050M00、D1A120M00、 D1A240M00
	DH1A050M00 \ DH1A120M00 \
DH TYPE	DH1A050M00 \ DH1A120M00 \ DH1A240M00
S TYPE	S1A050M00 \ S1A120M00 \ S1A240M00
SS TYPE	SS1A050M00 · SS1A120M00 ·
	SS1A240M00

D1A050D00 \ D1A120D00 \ D1A240D00	31
DH1A050D00 \ DH1A120D00 \ DH1A240D00	31
S1A050D00 \ S1A120D00 \ S1A240D00	32
SS1A050D00 \ SS1A120D00 \ SS1A240D00	32

D TYPE	
DH TYPE	
S TYPE	5
SS TYPE	5
CG TYPE	0

D TYPE

DH TYPE

S TYPE

SS TYPE

D1A050000 、D1A120000 、 D1A240000	31
DH1A050000 、DH1A120000 、 DH1A240000	31
S1A050000 \ S1A120000 \ S1A240000	32
SS1A050000 \ SS1A120000 \ SS1A240000	32
CG1A030000 、CG1A050000 、 CG1A060000 、CG1A090000 、 CG1A120000 、CG1A240000	32



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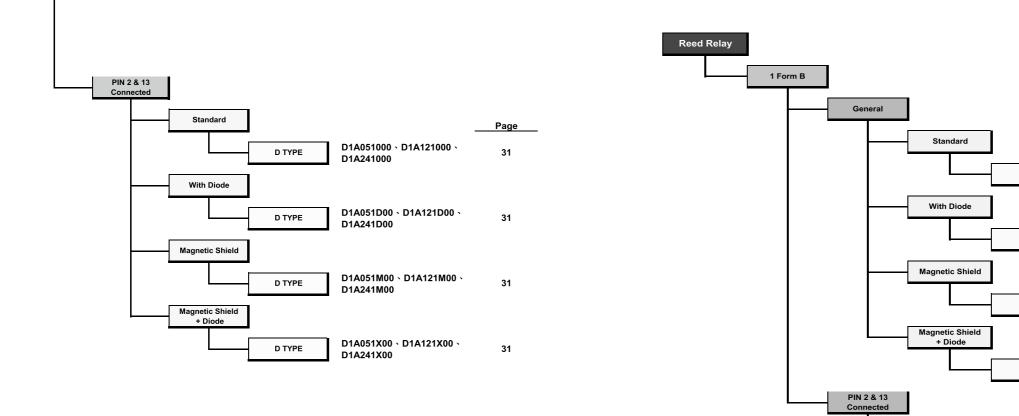
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32



#### **Reed Relay Product Tree**

**Reed Relay Product Tree** 





		Page
D TYPE	D1B050000 \ D1B120000 \ D1B240000	31
D TYPE	D1B050D00、D1B120D00、 D1B240D00	31
D TYPE	D1B050M00、D1B120M00、 D1B240M00	31
D TYPE	D1B050X00 \ D1B120X00 \ D1B240X00	31
D TYPE	D1B051000 、D1B121000 、 D1B241000	31
D TYPE	D1B051D00、D1B121D00、 D1B241D00	31
D TYPE	D1B051M00、D1B121M00、 D1B241M00	31
D TYPE	D1B051X00、D1B121X00、 D1B241X00	31

Standard

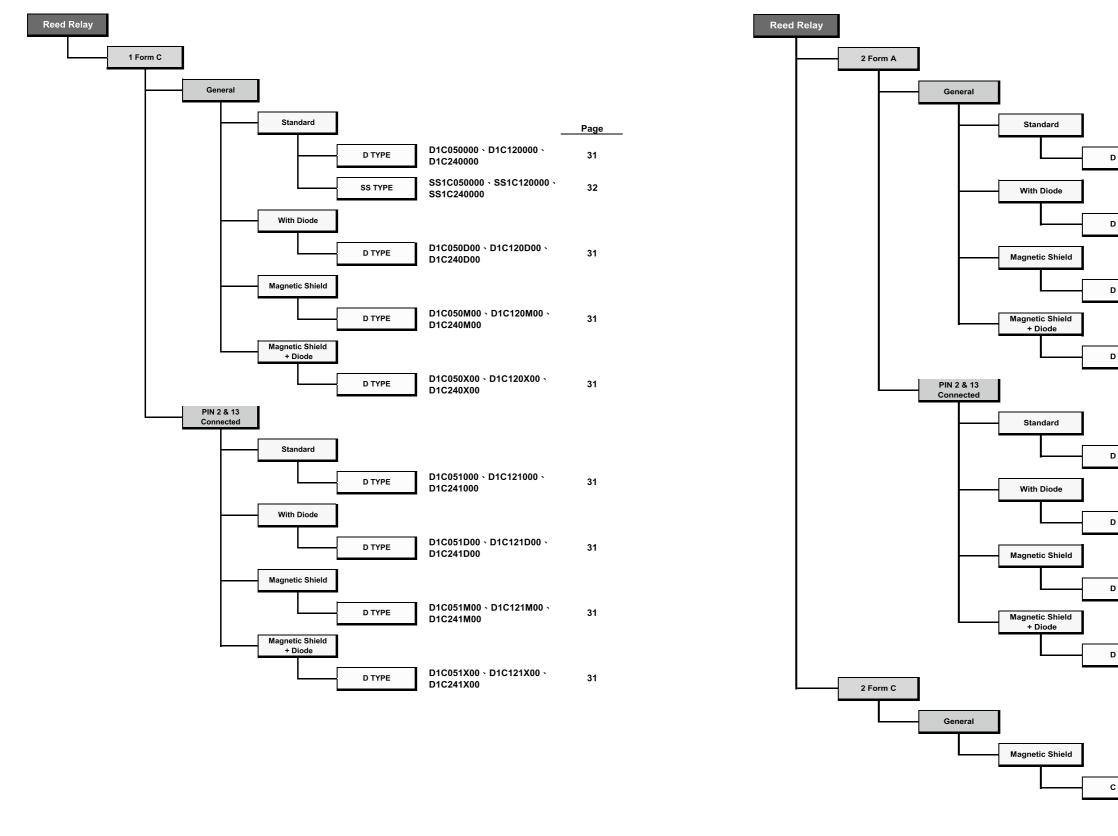
With Diode

Magnetic Shield

Magnetic Shield + Diode



**Reed Relay Product Tree** 





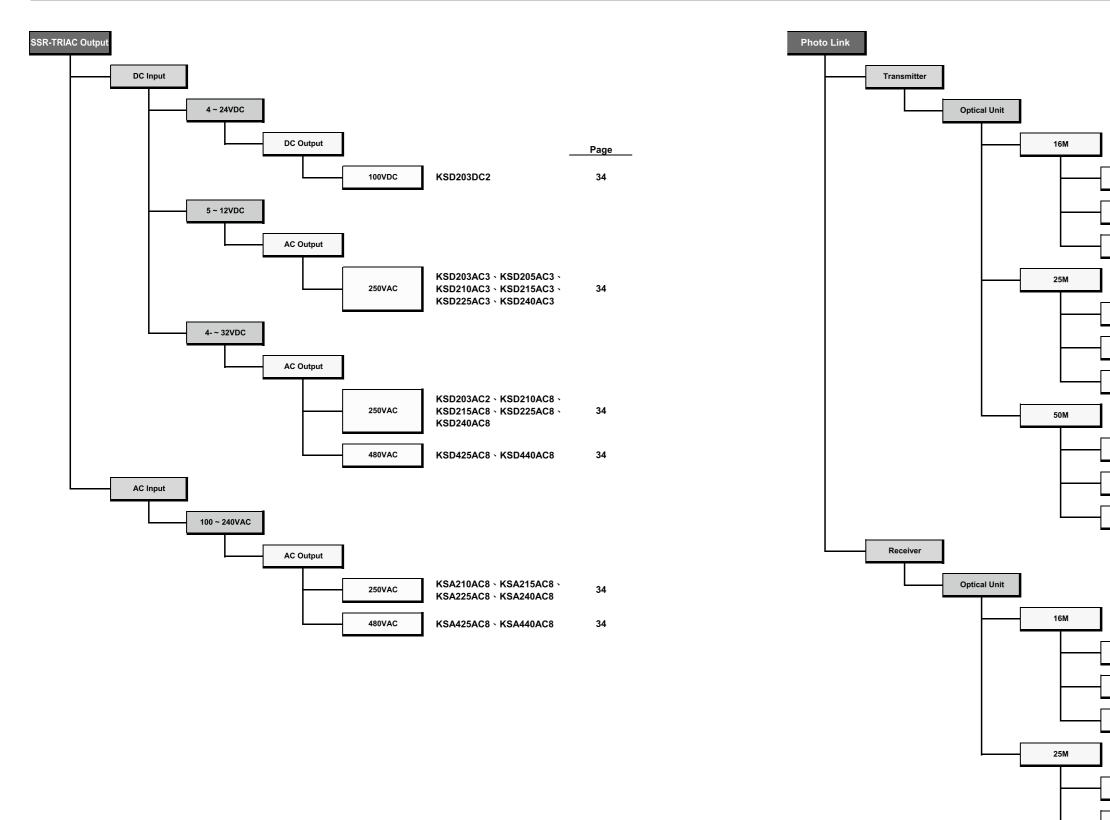
		Page
D TYPE	D2A050000 \ D2A120000 \ D2A240000	31
D TYPE	D2A050D00 \ D2A120D00 \ D2A240D00	31
D TYPE	D2A050M00 \ D2A120M00 \ D2A240M00	31
D TYPE	D2A050X00、D2A120X00、 D2A240X00	31
D TYPE	D2A051000 、D2A121000 、 D2A241000	31
D TYPE	D2A051D00、D2A121D00、 D2A241D00	31
D TYPE	D2A051M00 \ D2A121M00 \ D2A241M00	31
D TYPE	D2A051X00 \ D2A121X00 \ D2A241X00	31

C TYPE

C2C050M01 \ C2C120M01 \ 32 C2C240M01 32



**Photo Link Product Tree** 



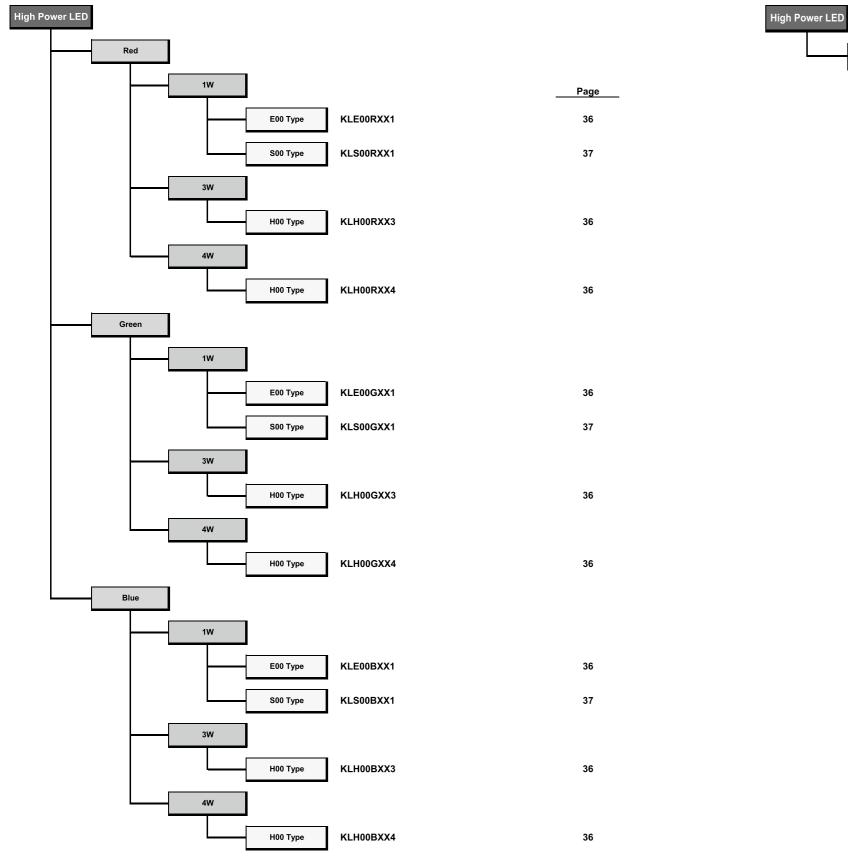


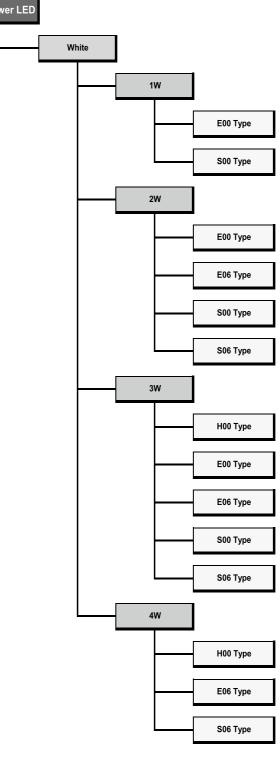
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5057	KPLT1320M1	35
3156	KPLT1320M3 KPLT1320M4	35
3075	KPLT1320M5 KPLT1320M9	35
5057	KPLT2500M1	35
3156	KPLT2500M3 KPLT2500M4	35
3075	KPLT2500M5 KPLT2500M9	35
5057	KPLT5000M1	35
3156	KPLT5000M3 KPLT5000M4	35
3075	KPLT5000M5 KPLT5000M9	35

5057	KPLR1320M1	35
3156	KPLR1320M3 KPLR1320M4	35
3075	KPLR1320M5	35
5057	KPLR2500M1	35
3156	KPLR2500M3 KPLR2500M4	35
3075	KPLR2500M5	35



**High Power LED Product Tree** 



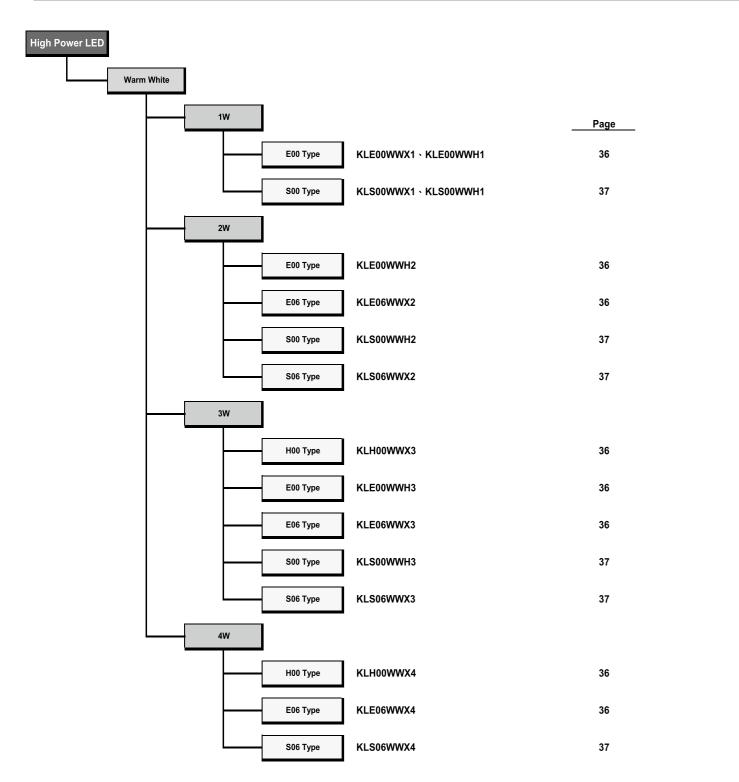


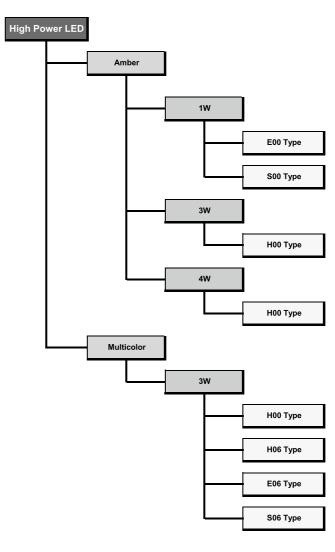


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KLE00WXX1 \ KLE00WHX1	36
KLS00WXX1 V KLS00WHX1	37
KLE00WHX2	36
KLE06WXX2	36
KLS00WHX2	37
KLS06WXX2	37
KLH00WXX3	36
KLE00WHX3	36
KLE06WXX3	36
KLS00WHX3	37
KLS06WXX3	37
KLH00WXX4	36
KLE06WXX4	36
KLS06WXX4	37



**High Power LED Product Tree** 







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KLE00AXX1	36
KLS00AXX1	37
KLH00AXX3	36
KLH00AXX4	36
KLH00RGB3 VKLH00BGA3	36
KLH06RGB3、KLH06BGA3	36
KLE06RGB3、KLE06BGA3	36
KLS06RGB3 VKLS06BGA3	37



#### **Photo Coupler**

**Photo Coupler** 

		Absolute Maximum Ratings         Electro-optical Characteristics											
		Absolu	ute Max	(imum	Ratings		Ele	ectro-optical C				Rema	ark
Model Number	Schematic	IF (mA)	Vceo (V)	IC (mA)	Viso (Vrms)	VF (V) Max.	СТ	R%	Vce(sat) (V) Max.	tr (us) Typ.	tf (us) Typ.	Series Product	Description
K1010		50	80	50	5000	1.4	50 ~ 600	IF=5mA Vce=5V	0.2	4	3	KP1020 KP1040	2-Channel 4-Channel
KP1210		50	350	50	5000	1.3	50 ~ 600	IF=5mA Vce=5V	0.4	3	2		
K2010		50	80	50	5000	1.4	60 ~ 600	IF=2mA Vce=5V	0.3	5	4		
KP2110		50	80	50	5000	1.4	60 ~ 600	IF=2mA Vce=5V	0.3	5	4		
KP2210		50	350	50	5000	1.3	50 ~ 600	IF=5mA Vce=5V	0.4	3	2		
K3010		± 50	80	50	5000	1.4	60 ~ 600	IF=±1mA Vce=5V	0.3	5	4	KP3020 KP3040	2-Channel 4-Channel
KP4010		50	300	150	5000	1.4	600 ~ 9000	IF=1mA Vce=2V	1.5	60	50	KP4020 KP4040	2-Channel 4-Channel
KP5010		50	300	150	5000	1.4	600 ~ 9000	IF=1mA Vce=2V	1.5	60	50		
KP6010		± 50	80	50	5000	1.4	60 ~ 600	IF=±1mA Vce=5V	0.3	5	4		
KPC4N33		50	35	150	5000	1.4	Min.500	IF=1mA Vce=2V	1.5	80	72		
KPC815		50	35	80	5000	1.4	Min.600	IF=1mA Vce=2V	1.5	80	72	KPC825 KPC845	2-Channel 4-Channel

						Lov	v Input Cu					_	
Model Number	Schematic	IF (mA)	VCEO (V)	IC	Ratings Viso (Vrms)	VF (V) Max.		ectro-optical C	VCE(sat) (V) Max.	tr (us) Typ.	tf (us) Typ.	Rema Series Product	
K1010XT		50	80	50	5000	1.4	50 ~ 600	IF=1mA Vce=5V	0.2	4	3		
K1010XW		50	80	50	5000	1.8	50 ~ 600	IF=0.5mA Vce=5V	0.2	4	3		
K1010XZ		50	80	50	5000	1.8	50 ~ 600	IF=0.1mA Vce=5V	0.2	4	3		
KPC357NT0T		50	80	50	3750	1.4	50 ~ 600	IF=1mA Vce=5V	0.2	4	3		
KPC357NT0W		50	80	50	3750	1.8	50 ~ 600	IF=0.5mA Vce=5V	0.2	4	3		
KPC357NT0Z		50	80	50	3750	1.8	50 ~ 600	IF=0.1mA Vce=5V	0.2	4	3		
KPS28010T		50	80	50	3750	1.4	50 ~ 600	IF=1mA Vce=5V	0.2	4	3		
KPS28010W		50	80	50	3750	1.8	50 ~ 600	IF=0.5mA Vce=5V	0.2	4	3		
KPS28010Z		50	80	50	3750	1.8	50 ~ 600	IF=0.1mA Vce=5V	0.2	4	3		
KT101T		50	80	50	5000	1.4	50 ~ 600	IF=1mA VCE=5V	0.2	4	3		
KT101W		50	80	50	5000	1.8	50 ~ 600	IF=0.5mA VCE=5V	0.3	11	11		
KT101Z		50	80	50	5000	1.8	50 ~ 600	IF=0.1mA VCE=5V	0.3	11	11		





**Photo Coupler** 

**Photo Coupler** 

		Absolu	ute Max	kimum	Ratings		IC Output	t ectro-optical C	haracteristic	cs		Rema	ark
Model Number	Schematic	IF (mA)	Vcc (V)	10	Viso (Vrms)	ICCL (mA)	ICCH (mA) Typ.	IFLH (mA) Max.	VFHL (V) Min.	TPHL (us) Typ.	TPLH (us) Typ.	Series Product	Description
KP1510		20	35	2.5	5000	2.5	2.5	5	0.7	0.3	0.3		
KTLP250		20	35	±1.5	5000	7.5	7	5	0.7	0.15	0.15		
KTLP350		20	35	±2.5	5000	2	2	5	0.7	0.26	0.26		

						Μ	lini Flat Ty	ре					
		Absol	ute Max	timum	Ratings		El	ectro-optical C	Characteristic	s		Rema	ırk
Model Number	Schematic	IF (mA)	Vceo (V)		Viso (Vrms)	VF (V) Max.	СТ	R%	VCE(sat) (V) Max.	tr (us) Typ.	tf (us) Typ.	Series Product	Description
KPC354NT		±50	80	50	3750	1.4	20 ~ 400	IF=±1mA Vce=5V	0.3	4	3		
KPC355NT		50	35	150	3750	1.4	Min.600	IF=1mA Vce=2V	1.0	60	53		
KPC357NT		50	80	50	3750	1.4	50 ~ 600	IF=5mA Vce=5V	0.3	5	4		
KPC452		50	300	150	3750	1.4	Min.1000	IF=1mA Vce=2V	1.5	100	20		

						4	4LSOP Typ	be				_	
		Absol	ute Max	kimum	Ratings		El	ectro-optical C	Characteristic	cs		Rema	ark
Model Number	Schematic	IF (mA)	Vceo (V)		Viso (Vrms)	VF (V) Max.	СТ	'R%	VCE(sat) (V) Max.	tr (us) Typ.	tf (us) Typ.	Series Product	Descriptio
KT1000		50	80	50	5000	1.4	50 ~ 600	IF=5mA VCE=5V	0.3	5	4		
KT1200		50	35	150	5000	1.4	Min.200	IF=1mA VCE=2V	1	200	200		
KT1300		±50	35	150	5000	1.4	Min.200	IF=±1mA VCE=2V	1	200	200		
KT1400		50	300	150	5000	1.4	Min.1000	IF=1mA VCE=2V	1.5	100	20		
KT1600		±50	80	50	5000	1.4	50 ~ 300	IF=±5mA VCE=5V	0.3	5	4		
KT1010		50	80	50	5000	1.4	50 ~ 600	IF=5mA VCE=5V	0.3	5	4		
KT1210		50	35	150	5000	1.4	Min.200	IF=1mA VCE=2V	1	200	200		
KT1310		±50	35	150	5000	1.4	Min.200	IF=±1mA VCE=2V	1	200	200		
KT1410		50	300	150	5000	1.4	Min.1000	IF=1mA VCE=2V	1.5	100	20		
KT1610		±50	80	50	5000	1.4	50 ~ 300	IF=±5mA VCE=5V	0.3	5	4		





#### **Photo Coupler**

**Photo Coupler** 

						High	n Speed O	utput					
		Absolu	ute Max	kimum	Ratings		El	ectro-optical C	haracteristi	cs		Rema	ırk
Model Number	Schematic	IF Vcc IO Viso (mA) (V) (mA) (Vrms)		Data Rate	СТ	<sup>-</sup> R%	CMR (V/uS) Typ.	TPHL (us) Typ.	TPLH (us) Typ.	Series Product	Description		
KPC6N135	┍╌╴ ┍╴╴╴	25	15	8	5000	1M	Min.7	IF=16mA Vo=0.4V Vcc=4.5V	1000	0.3	0.4		
KPC6N136		25	15	8	5000	1M	Min.19	IF=16mA Vo=0.4V Vcc=4.5V	1000	0.3	0.3		
KPC6N137		25	7	50	5000	10M	-	-	500	0.045	0.045		
KPC6N138		20	7	60	5000	-	Min.300	IF=1.6mA Vo=0.4V Vcc=4.5V	500	2	7		
KPC6N139		20	18	60	5000	-	Min.500	IF=1.6mA Vo=0.4V Vcc=4.5V	500	5	10		
KPC410		25	7	50	3750	10M	-	-	500	0.045	0.045		
KPC457		25	15	8	3750	1M	Min.19	IF=16mA Vo=0.4V Vcc=4.5V	30K	0.2	0.4		

						4	ISSOP Typ	be					
		Absolu	ute Max	imum	Ratings		Ele	ectro-optical C	haracteristic	cs		Rema	ark
Model Number	Schematic	IF (mA)	Vceo (V)	IC (mA)	Viso (Vrms)	VF (V) Max.	СТ	'R%	VCE(sat) (V) Max.	tr (us) Typ.	tf (us) Typ.	Series Product	Description
KPS2801		50	80	50	3750	1.4	50 ~ 600	IF=5mA Vce=5V	0.3	3	5		
KPS2802		50	40	90	3750	1.4	Min.200	IF=1mA Vce=2V	1.0	200	200		
KPS2805		±50	80	50	3750	1.4	50 ~ 600	IF=±5mA Vce=5V	0.3	3	5		
KPS2806		±50	40	90	3750	1.4	Min.200	IF=±1mA Vce=2V	1.0	200	200		
KPS2832		50	300	60	3750	1.4	Min.400	IF=1mA Vce=2V	1.0	100	20		

						Triac Ou					_
		Absolute	e Maximum I	Ratings			tro-Optical				Remark
Model Number	Schematic	I <sub>F</sub> (mA)	V <sub>DRM</sub> (Vpeak)	V <sub>ISO</sub> (Vrms)	V <sub>F</sub> (V) Max.	I <sub>DRM</sub> (nA) Max.	I <sub>FT</sub> (mA) Max.	V <sub>TM</sub> (V) Max.	V <sub>INH</sub> (V) Max.	dv/dt (V/us) Min.	Description
KMOC3011		50	600	5300	1.4	500	10	3	-	600	
KMOC3012		50	600	5300	1.4	500	10	3	20	600	
KMOC3021							15				
KMOC3022	⋳⋣⋐│	50	400	5300	1.4	100	10	3	-	600	
KMOC3023							5				
KMOC3041	ф. гЪ						15				
KMOC3042		50	400	5300	1.4	500	10	3	20	600	
KMOC3043							5				
KMOC3051	ф <u>,</u> г-Ъ						15				
KMOC3052	⋳⋣⋐│	50	600	5300	1.4	500	10	3	-	600	
KMOC3053							5				
KMOC3061	ф. гЪ						15				
KMOC3062		50	600	5300	1.4	500	10	3	20	600	
KMOC3063							5				
KMOC3081	ф. — Þ						15				
KMOC3082	⋳┚╆	50	800	5300	1.4	500	10	3	20	600	
KMOC3083							5				
KTLP160G		50	400	3750	1.4	1000	10	3	-	600	
KTLP160J	▝ᠲᢩ┎ᢪᡰ	50	600	3750	1.4	1000	10	3	-	600	
KTLP165J		50	600	3750	1.4	1000	10	3	-	600	
KTLP260J		50	600	3750	1.4	1000	10	3	-	600	
KTLP161G		50	400	3750	1.4	1000	10	3	20	600	
KTLP161J	<del>с</del> )	50	600	3750	1.4	1000	10	3	20	600	
KTLP166J	¥ ¥	50	600	3750	1.4	1000	10	3	50	600	
KTLP168J	┍┘╘╝╌╸	50	600	3750	1.4	1000	3	3	50	600	
KTLP161L		50	800	3750	1.4	1000	10	3	50	600	

					Pov	ver Tria	c Outpu	t				
		Ab	solute Max	imum Ratii	ngs		Elec	tro-Optical	Characteri	stics		Remark
Model Number	Schematic	I <sub>F</sub> (mA)	V <sub>DRM</sub> (Vpeak)	I <sub>⊤</sub> (Arms)	Viso (Vrms)	V <sub>F</sub> (V) Max.	I <sub>DRM</sub> (uA) Max.	I <sub>FT</sub> (mA) Max.	V <sub>TM</sub> (V) Max.	V <sub>INH</sub> (V) Max.	dv/dt (V/us) Typ.	Description
KTLP3502	<u> п</u>		400	0.5								
KTLP3506	₽₽₽	50	600	0.5	5300	1.4	100	10	3	-	1000	
KTLP3616	┫╘╞╽		600	1.2								
KTLP3503	ф г <del>т</del> Р		400	0.5								
KTLP3507		50	600	0.5	5300	1.4	100	10	3	50	1000	
KTLP3617	d L⊅		600	1.2								

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#### **SSR-MOSFET Output**

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Abor         Abor         Abor         Vert (v)         Vert (v	Model Number         Schemaie         V,	Model         Symmatic         Model Mark         Model Mark <th></th> <th></th> <th></th> <th></th> <th></th> <th>Norma</th> <th>l Open Ty</th> <th>ре</th> <th></th> <th></th> <th></th> <th></th> <th></th>						Norma	l Open Ty	ре					
Market         Warket         Warket<	MAND         MAX         MAX </th <th>Name         Norm         <th< th=""><th></th><th></th><th>Absolut</th><th>te Maximum</th><th>Ratings</th><th></th><th>I .</th><th></th><th>ŕ.</th><th>-</th><th>_</th><th>-</th><th>Remark</th></th<></th>	Name         Norm         Norm <th< th=""><th></th><th></th><th>Absolut</th><th>te Maximum</th><th>Ratings</th><th></th><th>I .</th><th></th><th>ŕ.</th><th>-</th><th>_</th><th>-</th><th>Remark</th></th<>			Absolut	te Maximum	Ratings		I .		ŕ.	-	_	-	Remark
Image: books of the sector of the s	Normal         Normal         Normal         Normal         Normal         Normal         Normal         Normal         Normal           KA072128         AM0         10         100         10         0.00         1.00         1.00 <td>NAM2         I</td> <td>Model Number</td> <td>Schematic</td> <td>V<sub>B</sub></td> <td>IL.</td> <td>VISO</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Description</td>	NAM2         I	Model Number	Schematic	V <sub>B</sub>	IL.	VISO								Description
KA07212         KA07213         KA07217         KA07213         KA07213         KA07213         KA07213         KA07213         KA07213         KA07213         KA07213         KA07213         KA07214         KA07214         KA07214         KA07214         KA07214         KA07213         KA07213         KA07213         KA07213         KA07213         KA07214         KA07216         KA07214         KA07216         KA07214         KA07216         KA07216 <t< td=""><td>KA02         KA02         KA02         KA02         K.0         K.0         I.5         I.5         I.5           KA027121         -         <t< td=""><td>KAOP2121 KAOP2121 KAOP2121 KAOP2121 KAOP3174         F         H        H        H</td><td></td><td></td><td>(V)</td><td>(mA)</td><td>(Vrms)</td><td></td><td>. ,</td><td></td><td>,</td><td></td><td>. ,</td><td>. ,</td><td>Description</td></t<></td></t<>	KA02         KA02         KA02         KA02         K.0         K.0         I.5         I.5         I.5           KA027121         - <t< td=""><td>KAOP2121 KAOP2121 KAOP2121 KAOP2121 KAOP3174         F         H        H        H</td><td></td><td></td><td>(V)</td><td>(mA)</td><td>(Vrms)</td><td></td><td>. ,</td><td></td><td>,</td><td></td><td>. ,</td><td>. ,</td><td>Description</td></t<>	KAOP2121 KAOP2121 KAOP2121 KAOP2121 KAOP3174         F         H        H        H			(V)	(mA)	(Vrms)		. ,		,		. ,	. ,	Description
KA072178         KA07217         KA07217         KA07217         KA07217           KA072171         180         150         1.5         3.0         0.2         1.0         6         1.0         1.0           KA072173         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KA07218         200         100         1.5         3.0         0.2         1.0         8         1.0         1.5           KA07218         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KA07218         150         1.5         3.0         0.2         1.0         2.0         1.0         1.0         1.0         1.0           KA07214         130         1500         1.5         3.0         0.2         1.0         2.0         1.0 <t< td=""><td>KA027271 KA02737 KA02747         F         400         500         15         300         0.2         1.0         0.05         1.5         1.0           KA02737 KA02743         -         160         150         15         3.0         0.2         1.0         6         1.0         1.0           KA02735         -         0         6         1.0</td><td>SA07212H (AGA7:17) KA07217H KA0721</td><td>KAQY212S</td><td></td><td></td><td>400</td><td>1500</td><td>1.5</td><td>3.0</td><td>0.2</td><td>1.0</td><td></td><td></td><td></td><td></td></t<>	KA027271 KA02737 KA02747         F         400         500         15         300         0.2         1.0         0.05         1.5         1.0           KA02737 KA02743         -         160         150         15         3.0         0.2         1.0         6         1.0         1.0           KA02735         -         0         6         1.0	SA07212H (AGA7:17) KA07217H KA0721	KAQY212S			400	1500	1.5	3.0	0.2	1.0				
KA072178         KA07217         KA07217         KA07217         KA07217           KA072171         180         150         1.5         3.0         0.2         1.0         6         1.0         1.0           KA072173         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KA07218         200         100         1.5         3.0         0.2         1.0         8         1.0         1.5           KA07218         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KA07218         150         1.5         3.0         0.2         1.0         2.0         1.0         1.0         1.0         1.0           KA07214         130         1500         1.5         3.0         0.2         1.0         2.0         1.0 <t< td=""><td>KA027271 KA02737 KA02747         F         400         500         15         300         0.2         1.0         0.05         1.5         1.0           KA02737 KA02743         -         160         150         15         3.0         0.2         1.0         6         1.0         1.0           KA02735         -         0         6         1.0</td><td>SA07212H (AGA7:17) KA07217H KA0721</td><td>KAQY212</td><td></td><td>60</td><td>400</td><td>3750</td><td>1.5</td><td>3.0</td><td>0.2</td><td>1.0</td><td>0.83</td><td>1.5</td><td>1.5</td><td></td></t<>	KA027271 KA02737 KA02747         F         400         500         15         300         0.2         1.0         0.05         1.5         1.0           KA02737 KA02743         -         160         150         15         3.0         0.2         1.0         6         1.0         1.0           KA02735         -         0         6         1.0	SA07212H (AGA7:17) KA07217H KA0721	KAQY212		60	400	3750	1.5	3.0	0.2	1.0	0.83	1.5	1.5	
KA027217 MAQ7217 KA072731         180         150         10         10         10         10           KA072714 KA07233         100         10         10         10         10         10         10           KA072734 KA07234         100         100         10         10         10         10         10           KA07234         100         100         15         30         0.2         10         8         10         15           KA07234         100         15         30         0.2         10         8         10         15           KA07244         100         15         30         0.2         10         20         10         10         10           KA07244         100         15         30         0.2         10         20         10         10         10           KA07244         100         150         30         0.2         10         20         10         15           KA07245         100         150         15         30         0.2         10         15         15           KA07245         100         15         15         30         0.2         10         0.5 <td>NAC72175 NAC72174 NAC7218 NAC7218 NAC7218 NAC7214 NAC7218 NAC7214 NAC7218 NAC7214 NAC72</td> <td>NAV2710 KA0/1271 KA0/2131 KA0/2131 KA0/2131 KA0/2144</td> <td></td>	NAC72175 NAC72174 NAC7218 NAC7218 NAC7218 NAC7214 NAC7218 NAC7214 NAC7218 NAC7214 NAC72	NAV2710 KA0/1271 KA0/2131 KA0/2131 KA0/2131 KA0/2144													
KAQ2217 KAQ2137 KAQ2138 KAQ2138 KAQ2138 KAQ2134 KAQ2143 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2144 KAQ2145 KAQ2144 KAQ2145 KAQ2144 KAQ2145 KAQ2144 KAQ2145 KAQ2147	NAQ2217 MAQ2317 MAQ2318 MAQ3318	KA02171 KA021217 KA02131 KA02131 KA02134 KA02134 KA02134 KA02134 KA02134 KA02134         L         L         L         L         L         L         L         L         L         L           KA02135 KA02134 KA02134 KA02134													
KAQY217H KAQY213 KAQY213 KAQY2104	KA0Y217H KA07213 KA07213H KA07214         Image: style sty	KA02/2171 KA02/218 KA02/213 KA02/214 KA02/2			200										
KA0Y218 KA0Y234 KA0Y234 KA0Y234 KA0Y245 KA0Y245 KA0Y245 KA0Y245 KA0Y245 KA0Y245 KA0Y245 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y246 KA0Y247	KA027218         KA027314         KA027314         KA02734         KA02744         KA027444         KA02744         KA02744	KA02135         KA0214         KA0214 <thka0214< th=""> <thka0214< th=""> <thka0214< t<="" td=""><td></td><td></td><td>200</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thka0214<></thka0214<></thka0214<>			200										
IAAQY213 KAQY2141 KAQY216	KA02213 KA024         KA02405 KA02405         Zoo         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KA02405 KA02416         130         3750         1.5         3.0         0.2         1.0         8         1.0         1.0           KA02416 KA02416         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KA02416         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KA02416         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KA02418         130         3750         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KA024215         KA02417         100         150         1.5         3.0         0.2         1.0         3.5         1.5           KA02417         KA02417         160         1.5         3.0         0.2         1.0         0.8         1.5         1.5           KA02417         KA02417         1.0         1.5         3.0<	KA0/213         KA0/213         KA0/214         KA0/216         200         3700         1.5         3.0         0.2         1.0         8         1.0         1.5           KA0/216         300         1.5         3.0         0.2         1.0         20         1.0													
KAQY2184         KAQY2184         KAQY2184         KAQY210	KA02/213H         L         200         5000         1.5         3.0         0.2         1.0         8.8         1.0         1.5           KA02/210         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KA02/214         130         5000         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KA02/214         130         5000         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KA02/214         130         5000         1.5         3.0         0.2         1.0         3.0         1.0         1.0           KA02/214         100         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KA02/215         1000         1.5         3.0         0.2         1.0         3.5         1.5           KA02/217         140         1500         1.5         3.0         0.2         1.0         0.8         1.5         1.5           KA02/216         100         1.5         3.0         0.2         1.0         0.0         1.5	KA0/2131 KA0/2144         L         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KA0/210 KA0/214         -	KAQY213S	-		200	1500	1.5	3.0	0.2	1.0	8	1.0	1.5	
KA027131 KA027101         L         C         S00         1.5         S.0         0.2         1.0         8         1.0         1.5           KA027101         M	KA02/218     Image: state s	KAAP2105	KAQY213		250	200	3750	1.5	3.0	0.2	1.0	8	1.0	1.5	
KA0Y214         KA0Y214 <t< td=""><td>KAQY210         KAQY210         KAQY210         KAQY214         KAQY215         KAQY215         KAQY215         KAQY215         KAQY215         KAQY216         <t< td=""><td>KA027214     KA027214     KA027214</td><td>KAQY213H</td><td>」 ★  協 </td><td></td><td>200</td><td>5000</td><td>1.5</td><td>3.0</td><td>0.2</td><td>1.0</td><td>8</td><td>1.0</td><td>1.5</td><td></td></t<></td></t<>	KAQY210         KAQY210         KAQY210         KAQY214         KAQY215         KAQY215         KAQY215         KAQY215         KAQY215         KAQY216         KAQY216 <t< td=""><td>KA027214     KA027214     KA027214</td><td>KAQY213H</td><td>」 ★  協 </td><td></td><td>200</td><td>5000</td><td>1.5</td><td>3.0</td><td>0.2</td><td>1.0</td><td>8</td><td>1.0</td><td>1.5</td><td></td></t<>	KA027214	KAQY213H	」 ★  協		200	5000	1.5	3.0	0.2	1.0	8	1.0	1.5	
KA0Y214         KA0Y214 <t< td=""><td>KAQY210         KAQY210         KAQY210         KAQY214         KAQY216         KAQY214         KAQY214         <t< td=""><td>KA027214     KA027214     KA027214</td><td>KAQY210S</td><td>    421</td><td></td><td>130</td><td>1500</td><td>1.5</td><td>3.0</td><td>0.2</td><td>1.0</td><td>20</td><td>1.0</td><td>1.0</td><td></td></t<></td></t<>	KAQY210         KAQY210         KAQY210         KAQY214         KAQY216         KAQY214         KAQY214 <t< td=""><td>KA027214     KA027214     KA027214</td><td>KAQY210S</td><td>    421</td><td></td><td>130</td><td>1500</td><td>1.5</td><td>3.0</td><td>0.2</td><td>1.0</td><td>20</td><td>1.0</td><td>1.0</td><td></td></t<>	KA027214	KAQY210S	421		130	1500	1.5	3.0	0.2	1.0	20	1.0	1.0	
KAQY214 KAQY214 KAQY216 KAQY216 KAQY216 KAQY216 KAQY216 KAQY216 KAQY216 KAQY217 KAQY218 KAQY218 KAQY218 KAQY216 KAQY216 KAQY217 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY218 KAQY214	KAQY214 KAQY214 KAQY214 KAQY216         F         10         10         10         10         10           KAQY214 KAQY216         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0         1.0           KAQY216         100         5000         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQY216         100         100         5000         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQY216         100         3.5         1.0         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217         180         500         1.5         3.0         0.2         1.0         1.5         1.5           KAQV216         XAQV216         1.0         1.5         3.0         0.2         1.0	KA0/2148         KA0/2144         Mage: Mag	KAQY210		350	130	3750	1.5	3.0	0.2	1.0	20	1.0	1.0	
KAQY214 KAQY214H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY218H KAQY217B KAQY217B KAQY217B KAQY217B KAQY217B KAQY218H	KAQY214 KAQY244 KAQY244 KAQY244 KAQY244 KAQY248 KAQY248 KAQY244	KAQY214 KAQY244 KAQY248         400         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KAQY248	KAQY210H			130	5000	1.5	3.0	0.2	1.0	20	1.0	1.0	
KAQY214H KAQY2185 KAQY216H KAQY216H KAQY216H KAQY2175 KAQY2175 KAQY2175 KAQV2175 KAQV2175 KAQV2175 KAQV2174 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV2136 KAQV214H KAQV2145 KAQV214H KAQV2145 KAQV214H KAQV2145 KAQV214H KAQV2145 KAQV214H KAQV2145 KAQV214H KAQV2145 KAQV214H KAQV2145 KAQV214F KAQV2145 KAQV214F KAQV2147 KAQV2147 KAQV2147 KAQV2147 KAQV2147 KAQV2136 KAQV2149 KAQV2147 KAQV2149 KAQV2147 KAQV2149 KAQV214	KAQY214H KAQY2185 KAQY216H         KAQY2185 KAQY216H         KAQY2185 KAQY216H         KAQY2185 KAQY2175 KAQV2175 KAQV2175 KAQV2175 KAQV2176	KA0/2164 KA0/2164         No	KAQY214S			130	1500	1.5	3.0	0.2	1.0	20	1.0	1.0	
KAQY214H KAQY2185         KAQY214H KAQY2185         KAQY216H         100         100         100         100         100         100         100         100         100           KAQY216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY216H         100         155         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217         KAQV217         100         0.03         1.5         1.5         1.5         1.5         1.5           KAQV213         100         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV216H         100         150         1.5         3.0         0.2         1.0         6.6         1.0         1.5           KAQV213         100         150         1.5         3.0         0.2         1.0         8.0         1.5         1.5           KAQV213         100         150         1.5         3.0         0.2         1.0	KAQY214H KAQY2165 KAQY2164 KAQY2164 KAQY2164 KAQY2164 KAQY2164 KAQY2164 KAQY2164 KAQY2175 KAQV2175 KAQV2175 KAQV2175 KAQV2175 KAQV2175 KAQV2176 KAQV217	KA0/2164 KA0/2164         No		1	400										
KAQY2163         KAQY2161         KAQY2161         KAQY2161         120         150         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY2161         120         3700         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212         KAQV212         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV212         KAQV212         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV2174         KAQV2174         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV213         400         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213         400         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV213         400         150         1.5         3.0         0.2         1.0         8         1.0         1.5           K	KAQY2163         KAQY2164         KAQY2164         Image: Construct of the second sec	KA0Y216         KA0Y216         RA02         I		1											
KAQY216 KAQY216H         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY216H KAQY212H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY212H KAQY2175         KAQY2175         KAQY2175         1.00         0.83         1.5         1.5         1.5         1.0         0.83         1.5         1.5           KAQV2175         KAQV2175         KAQV2175         1.00         1.5         3.0         0.2         1.0         6.8         1.0         1.5           KAQV2175         KAQV2175         1.00         3.750         1.5         3.0         0.2         1.0         6.8         1.0         1.5           KAQV2134         1.00         3.750         1.5         3.0         0.2         1.0         8.8         1.0         1.5           KAQV216H         KAQV214         KAQV214         1.00         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV2145         KAQV2145         KAQV2145         1.00         1.5         3.0         0.2         1.0         1.5 </td <td>KAQY216 KAQV219H         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV218H KAQV212H         120         500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV212H KAQV217H         120         500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217H KAQV217H         160         160         155         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217H KAQV217H         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV210H         150         155         3.0         0.2         1.0         6         1.0         1.5           KAQV210H         150         155         3.0         0.2         1.0         8         1.0         1.5           KAQV210H         150         155         3.0         0.2         1.0         1.5         1.5           KAQV216H         150         155         3.0         0.2         1.0         1.5         1.5</td> <td>KAQY216         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY214         KAQY212         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQY212         KAQY214         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQY217         KAQY217         180         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQY217         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQY218         180         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQY218         180         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQY218         150         1.5         3.0         0.2         1.0         1.5         1.5         1.5         1.0         1.0         1.5         1.5           &lt;</td> <td></td> <td>1</td> <td></td>	KAQY216 KAQV219H         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV218H KAQV212H         120         500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV212H KAQV217H         120         500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217H KAQV217H         160         160         155         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217H KAQV217H         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV210H         150         155         3.0         0.2         1.0         6         1.0         1.5           KAQV210H         150         155         3.0         0.2         1.0         8         1.0         1.5           KAQV210H         150         155         3.0         0.2         1.0         1.5         1.5           KAQV216H         150         155         3.0         0.2         1.0         1.5         1.5	KAQY216         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQY214         KAQY212         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQY212         KAQY214         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQY217         KAQY217         180         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQY217         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQY218         180         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQY218         180         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQY218         150         1.5         3.0         0.2         1.0         1.5         1.5         1.5         1.0         1.0         1.5         1.5           <		1											
KAQY216H         KAQY216H         KAQY218         KAQV212         KAQV212         KAQV212         KAQV212         KAQV212         KAQV212         KAQV212         KAQV212         KAQV214         KAQV214         KAQV217         KAQV217         KAQV217         KAQV217         KAQV217         KAQV217         KAQV217         KAQV217         KAQV217         KAQV213         KAQV213         Image: Constraint of the constraint	KAQY216H         120         5000         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQV2125 KAQV2125 KAQV2175 KAQV2175 KAQV2175 KAQV2174 KAQV2135 KAQV2137 KAQV2135 KAQV2134 KAQV2135 KAQV2136 KAQV2104 KAQV2105 KAQV2104 KAQV2105 KAQV2104 KAQV2104 KAQV2105 KAQV2104 KAQV2105 KAQV2105 KAQV2104 KAQV2105 KAQV21	KAQV216H         KAQV212F         KAQV213F         KAQV214F		1	600										
KAQV212 KAQV212 KAQV212H KAQV212H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV213B KAQV213B KAQV213B KAQV213B KAQV213B KAQV210B KAQV210B KAQV210B KAQV210B KAQV210B KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV216B KAQV216B KAQV216B KAQV216B KAQV216B KAQV216B KAQV216B KAQV216B KAQV216B KAQV216B KAQV212B KAQV212B KAQV211B KAQV211B KAQV211B KAQV210F KAQV210F KAQV210F KAQV211B KAQV210F KAQV211B KAQV211B KAQV211B KAQV211B KAQV211B KAQV211B KAQV211B KAQV211B KAQV211B KAQV212B KAQW212B KAQW212B KAQW212B KAQW213B	KAQV2125 KAQV212 KAQV212H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV218H KAQV218H KAQV218H KAQV218H KAQV2108         400         1500         1.5         3.0         0.2         1.0         0.833         1.5         1.5           U         400         5000         1.5         3.0         0.2         1.0         0.833         1.5         1.5           KAQV217F KAQV217H KAQV213H         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213F KAQV213H	KAQV2123 KAQV212H KAQV212H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV213H KAQV213H KAQV219H KAQV219H KAQV219H KAQV219H KAQV210		{	000										
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KAQV212H KAQV217S KAQV217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQV217S KAQV217H KAQV217H KAQV213H KAQV213H KAQV213G KAQV213H KAQV210S KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV214H KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV214B KAQV216H KAQV212F KAQV212F KAQV212F KAQV212F KAQV212F KAQV212F KAQV212F KAQV214B KAQV21	KAQV212H KAQV2175 KAQV2175 KAQV2175 KAQV2174 KAQV2137 KAQV2138 KAQV2138 KAQV2138 KAQV2138 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2105 KAQV210	KAQV212H KAQV2175 KAQV2175 KAQV2175 KAQV2174 KAQV2135 KAQV2134 KAQV2135 KAQV2134 KAQV2135 KAQV2134 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2104 KAQV2144 KAQV2145 KAQV2145 KAQV2145 KAQV2145 KAQV2145 KAQV2164 KAQV2164 KAQV2164 KAQV2164 KAQV2164 KAQV2175 KAQV2164 KAQV2164 KAQV2175 KAQV2164 KAQV2175 KAQV2176 KAQV216 KAQV216 KAQV216 KAQV216 KAQV216 KAQV216 KAQV216 KAQV216 KAQV21				400		1.5	3.0	0.2	1.0	0.83	1.5	1.5	
KAQV217S KAQV217H KAQV217H KAQV213H KAQV213H KAQV213G KAQV213H KAQV2105 KAQV2105 KAQV2104 KAQV2104 KAQV2104 KAQV2145         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV217H KAQV213H KAQV213B KAQV2105         1         5000         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213F KAQV2105         1         5000         1.5         3.0         0.2         1.0         8         1.00         1.5           KAQV2105         200         3750         1.5         3.0         0.2         1.0         8         1.00         1.5           KAQV2145         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV2145         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV2144         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV2164         120         5000         1.5         3.0         0.2         1.0         0.5         1.5           KAQV2164         120 <td>KAQV2175 KAQV217H KAQV217H KAQV213H KAQV213H KAQV213H KAQV213H KAQV213H KAQV213H KAQV214H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV216H KAQV216H KAQV216H KAQV217H KAQV2110 KAQV2110 KAQV2110 KAQV210 KAQV210 KAQV210 KAQV210 KAQV210 KAQ</td> <td>KAQV2175 KAQV217 KAQV217 KAQV217 KAQV217 KAQV218 KAQV213 KAQV213H         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV217 KAQV213H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213H         180         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV213H         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210H         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210H         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV214F         1.00         1.50         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214F         KAQV216F         1.00         1.5         3.0         0.2         1.0         1.5         1.5           KAQV216F         KAQV216F         1.00         1.5         3.0         0.2         1.0         3.5</td> <td>KAQV212</td> <td> </td> <td>60</td> <td>400</td> <td>3750</td> <td>1.5</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> <td>0.83</td> <td>1.5</td> <td>1.5</td> <td></td>	KAQV2175 KAQV217H KAQV217H KAQV213H KAQV213H KAQV213H KAQV213H KAQV213H KAQV213H KAQV214H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV217H KAQV217H KAQV217H KAQV217H KAQV217H KAQV216H KAQV216H KAQV216H KAQV217H KAQV2110 KAQV2110 KAQV2110 KAQV210 KAQV210 KAQV210 KAQV210 KAQV210 KAQ	KAQV2175 KAQV217 KAQV217 KAQV217 KAQV217 KAQV218 KAQV213 KAQV213H         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV217 KAQV213H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213H         180         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV213H         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210H         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210H         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV214F         1.00         1.50         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214F         KAQV216F         1.00         1.5         3.0         0.2         1.0         1.5         1.5           KAQV216F         KAQV216F         1.00         1.5         3.0         0.2         1.0         3.5	KAQV212		60	400	3750	1.5	3.0	0.2	1.0	0.83	1.5	1.5	
KAQV2171 KAQV217H KAQV213F1 KAQV213F1 KAQV213F1 KAQV213F1 KAQV2105         200         150         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213F1 KAQV213F1 KAQV2105	KAQV217 KAQV213FI KAQV213FI KAQV213FI KAQV213FI KAQV213FI KAQV210FI KAQV210FI KAQV210FI KAQV210FI KAQV210FI KAQV210FI KAQV210FI KAQV210FI KAQV210FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV214FI KAQV216FI KAQV216FI KAQV216FI KAQV216FI KAQV216FI KAQV216FI KAQV216FI KAQV216FI KAQV216FI KAQV217FI KAQV217FI KAQW2	KAQV217 KAQV213F1 KAQV213F1 KAQV213F1 KAQV213F1 KAQV2105         200         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQV213F1 KAQV213F1 KAQV2105	KAQV212H			400	5000	1.5	3.0	0.2	1.0	0.83	1.5	1.5	
KAQV217H KAQV2133 KAQV213H KAQV213H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214H KAQV214H KAQV216H KAQV217B KAQV216H KAQV217H KAQV216H KAQV216H KAQV217H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216H KAQV216 KA	KAQV217H KAQV2138         KAQV213         Image: Constraint of the sector	KAQV217H KAQV213S KAQV213H KAQV210F KAQV210	KAQV217S		200	180	1500	1.5	3.0	0.2	1.0	6	1.0	1.5	
KAQV213S KAQV213H KAQV214H KAQV210F KAQV210F KAQV210F KAQV210F KAQV210F         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV213H KAQV210F         1         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210F         100         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210F         100         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214F         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216F         100         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212F         100         1.5         3.0         0.2         1.0	KAQV213 KAQV213H KAQV213H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV214S         ·           KAQV214         KAQV2168         KAQV216         ·	KAQV213S KAQV219H KAQV219H KAQV210H KAQV210H KAQV210H KAQV214S KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV216F KAQV216	KAQV217		200	180	3750	1.5	3.0	0.2	1.0	6	1.0	1.5	
KAQV213S KAQV213H KAQV214H KAQV210F KAQV210F KAQV210F KAQV210F KAQV210F         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV213H KAQV210F         1         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210F         100         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV210F         100         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214F         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216F         100         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212F         100         1.5         3.0         0.2         1.0	KAQV213 KAQV213H KAQV213H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV214S         ·           KAQV214         KAQV2168         KAQV216         ·	KAQV213S KAQV219H KAQV219H KAQV210H KAQV210H KAQV210H KAQV214S KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV214K KAQV216F KAQV216	KAQV217H			180	5000	1.5	3.0	0.2	1.0	6	1.0	1.5	
KAQV213 KAQV213H KAQV2105         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV2105         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV2105         300         150         3.0         0.2         1.0         200         1.0         1.5           KAQV210         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV210H         XAQV214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216         130         3750         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQV216         KAQV2175         KAQW2175         120	KAQV213 KAQV213H KAQV2105 KAQV2104 KAQV2105 KAQV2104 KAQV2105 KAQV2104 KAQV2145 KAQV2145 KAQV2144 KAQV2145 KAQV2144 KAQV2144 KAQV2144 KAQV2144 KAQV2144 KAQV2144 KAQV2164	KAQV213 KAQV213H KAQV2105 KAQV2104         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQV213H KAQV2105         10         100         15         3.0         0.2         1.0         8         1.0         1.5           KAQV2105         100         15         3.0         0.2         1.0         8         1.0         1.5           KAQV2145         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV2141         KAQV2141         KAQV216H         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW2175         KAQW217         15         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         KAQW2131         1.5         3.0				200	1500	15	3.0	0.2	10	8	10		
KAQV213H KAQV2105         Image: constraint of the sector of the sec	KAQV213H KAQV210K KAQV210H KAQV210H KAQV210H KAQV214H KAQV2144 KAQV2148         I         I         I         I         I           KAQV210H KAQV210H KAQV210H KAQV2148         I	KAQV213H KAQV2100 KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV210H KAQV214H KAQV214H KAQV214H         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV210H KAQV210H KAQV210H KAQV210H KAQV214H KAQV214H         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214H KAQV216S         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV216S         130         1500         1.5         3.0         0.2         1.0         1.0         1.5           KAQV216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         400         1500         1.5         3.0         0.2         1.0         35         1.5         1.5           KAQW212F         KAQW212F         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212S         KAQW213F         180         1500         1.5         3.0         0.2         1.0         0.83         1.			250										
KAQV2105 KAQV210H KAQV2144         Image with the second seco	KAQV2105 KAQV210H KAQV210H KAQV214H KAQV214H KAQV214H KAQV214H KAQV214H KAQV214H KAQV214H KAQV216         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV210H KAQV214H KAQV214H KAQV214H KAQV214H KAQV216S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214H KAQV216S         130         5000         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV216H KAQV216H         130         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H KAQW217B KAQW217E         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW217F         120         5000         1.5         3.0         0.2         1.0         3.5         1.5         1.5           KAQW217F         KAQW217F         400         1500         1.5         3.0         0.2         1.0         6.8         1.0         1.5           KAQW217F         KAQW217F         180         1500         1.5         3.0         0.2         1.0         6. <td>KAQV2105 KAQV210H KAQV210H KAQV214S         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV210H KAQV214S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV216F         130         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQW217F         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         KAQW217         400         1500         1.5</td> <td></td> <td>┥│╪╶╻ぱ│</td> <td></td>	KAQV2105 KAQV210H KAQV210H KAQV214S         130         1500         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV210H KAQV214S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214F         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV216F         130         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQW217F         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         KAQW217         400         1500         1.5		┥│╪╶╻ぱ│											
KAQV210Mark KAQV210HMark KAQV214Mark KAQV214SMark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV214Mark KAQV216Mark KAQV217Mark KAQV217Mark KAQV217Mark KAQV217Mark KAQV217Mark KAQV217Mark KAQV217Mark KAQV213Mark KAQ	KAQV2101 KAQV210H KAQV214         Mathematical Solution (Marcon Marcon Marc	KAQV2101 KAQV210H KAQV214S KAQV214S KAQV214S KAQV214F KAQV214H KAQV214H KAQV214H KAQV214H KAQV216H         350         150         3.0         0.2         1.0         2.0         1.0         1.5           130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214S KAQV214H KAQV216H         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV216H         130         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         3.5         1.0         1.5           KAQW217S         KAQW217H         KAQW214         400         1500         1.5         3.0         0.2         1.0         6.8         1.0         1.0           KAQW217H         KAQW217H         KAQW216         180         3750         1.5         3.0         0.2         1.0         6.         1.0         1.0      <		d→    ;\$+□											
KAQV210H         KAQV214S         Image: state st	KAQV210H         KAQV214         KAQV216         Solution	KAQV210H         KAQV214K         KAQV214K         Matrix         M													
KAQV214S         KAQV214         400         1500         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV214H         KAQV214H         130         3750         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV216S         130         5000         1.5         3.0         0.2         1.0         200         1.0         1.5           KAQV216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212S         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212S         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         200         180         3750         1	KAQV214S         KAQV214         400         150         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV214H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         KAQW212H         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         KAQW212H         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217H         KAQW217H         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         KAQW213H	KAQV214S         KAQV214         KAQV214         KAQV214         KAQV214         KAQV214         KAQV214         KAQV214         KAQV214         KAQV216         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216         100         100         150         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216         KAQV216         100         150         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212         KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         KAQW217         KAQW217         KAQW217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         KAQW217         KAQW217         KAQW216         180         3750         1.5         3.0         0.2         1.0         6         1.0 </td <td></td> <td>ld 42</td> <td>350</td> <td></td> <td></td> <td>1.5</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> <td>20</td> <td>1.0</td> <td>1.5</td> <td></td>		ld 42	350			1.5	3.0	0.2	1.0	20	1.0	1.5	
KAQV214 KAQV214H KAQV216S         400         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.5           KAQV214H KAQV216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212S         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         140         5000         1.5         3.0	KAQV214         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216B         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212B         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         KAQW212         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213         KAQW213         200         1500         1.5	KAQV214         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.5         1.5           KAQV216         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW217         100         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213         KAQW213         180         1500         1.5         3	KAQV210H			130	5000	1.5	3.0	0.2	1.0	20	1.0	1.5	
KAQV214H KAQV216S         KAQV216         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216S         KAQV216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217F         200         1500         1.5 <t< td=""><td>KAQV214H         KAQV216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216S         600         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212B         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212F         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         400         5000         1.5         3.0         0.2         1.0         66         1.0         1.0           KAQW217F         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213F         KAQW213F         200         1500         1.5</td></t<> <td>KAQV214H KAQV216SKAQV216S100</td> <td>KAQV214S</td> <td></td> <td></td> <td>130</td> <td>1500</td> <td>1.5</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> <td>20</td> <td>1.0</td> <td>1.5</td> <td></td>	KAQV214H         KAQV216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.5           KAQV216S         600         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212B         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212F         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         400         5000         1.5         3.0         0.2         1.0         66         1.0         1.0           KAQW217F         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213F         KAQW213F         200         1500         1.5	KAQV214H KAQV216SKAQV216S100	KAQV214S			130	1500	1.5	3.0	0.2	1.0	20	1.0	1.5	
KAQV2165         KAQV216         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         355         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         355         1.0         1.5           KAQW212S         KAQW212S         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         200         1500         1.5         3.0 </td <td>KAQV216S         KAQV216         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212S         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW217F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213F         200         1500         1.5</td> <td>KAQV216S         KAQV216         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         KAQW212         KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         KAQW217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217H         KAQW217H         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213K         KAQW213K         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213K         KAQW213K         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5</td> <td>KAQV214</td> <td></td> <td>400</td> <td>130</td> <td>3750</td> <td>1.5</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> <td>20</td> <td>1.0</td> <td>1.5</td> <td></td>	KAQV216S         KAQV216         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV212S         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW217F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213F         200         1500         1.5	KAQV216S         KAQV216         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         KAQW212         KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         KAQW217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217H         KAQW217H         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213K         KAQW213K         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213K         KAQW213K         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5	KAQV214		400	130	3750	1.5	3.0	0.2	1.0	20	1.0	1.5	
KAQV216 KAQV216H         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         KAQW217S         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         5000         1.5         3.0         0.2         1.0         66         1.0         1.0           KAQW217H         400         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213H         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210H         KAQW210H         400	KAQV216         600         120         3750         1.5         3.0         0.2         1.0         355         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         355         1.0         1.5           KAQV212S         120         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217         400         5000         1.5         3.0         0.2         1.0         6.6         1.0         1.0           KAQW217         180         1500         1.5         3.0         0.2         1.0         6.6         1.0         1.0           KAQW2138         180         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW2138         250         5000         1.5         3.0         0.2	KAQV216         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQV216H         120         5000         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW212S         KAQW212         KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217F         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210F         XAQW210         130	KAQV214H			130	5000	1.5	3.0	0.2	1.0	20	1.0	1.5	
KAQV216H         Image: Married Field Fi	KAQV216H12050001.53.00.21.0351.01.5KAQW212SKAQW21240015001.53.00.21.00.831.51.5KAQW212KAQW212H40037501.53.00.21.00.831.51.5KAQW217S40050001.53.00.21.00.831.51.5KAQW217S40050001.53.00.21.00.831.51.5KAQW217718015001.53.00.21.061.01.0KAQW217H718037501.53.00.21.061.01.0KAQW213S718050001.53.00.21.061.01.0KAQW213H718050001.53.00.21.081.01.5KAQW210H7301.53.00.21.081.01.5KAQW210H73050001.53.00.21.081.01.0KAQW214S73050001.53.00.21.0201.01.0KAQW210H73050001.53.00.21.0201.01.0KAQW214S73050001.53.00.21.0201.01.0KAQW214S71305000<	KAQV216H12050001.53.00.21.0351.01.5KAQW212SKAQW21240015001.53.00.21.00.831.51.5KAQW212H40037501.53.00.21.00.831.51.51.5KAQW217S40050001.53.00.21.00.831.51.51.5KAQW21720015001.53.00.21.061.01.01.0KAQW21720018037501.53.00.21.061.01.01.0KAQW213S20015001.53.00.21.061.01.01.01.0KAQW213S25015001.53.00.21.081.01.51.51.01.5KAQW210S40050001.53.00.21.081.01.51.51.01.01.5KAQW210F4001501.53.00.21.081.01.51.01.	KAQV216S			120	1500	1.5	3.0	0.2	1.0	35	1.0	1.5	
KAQV216H         Image: Married Field Fi	KAQV216H12050001.53.00.21.0351.01.5KAQW212SKAQW21240015001.53.00.21.00.831.51.5KAQW212KAQW212H40037501.53.00.21.00.831.51.5KAQW217S40050001.53.00.21.00.831.51.5KAQW217S40050001.53.00.21.00.831.51.5KAQW217718015001.53.00.21.061.01.0KAQW217H718037501.53.00.21.061.01.0KAQW213S718050001.53.00.21.061.01.0KAQW213H718050001.53.00.21.081.01.5KAQW210H7301.53.00.21.081.01.5KAQW210H73050001.53.00.21.081.01.0KAQW214S73050001.53.00.21.0201.01.0KAQW210H73050001.53.00.21.0201.01.0KAQW214S73050001.53.00.21.0201.01.0KAQW214S71305000<	KAQV216H12050001.53.00.21.0351.01.5KAQW212SKAQW21240015001.53.00.21.00.831.51.5KAQW212H40037501.53.00.21.00.831.51.51.5KAQW217S40050001.53.00.21.00.831.51.51.5KAQW21720015001.53.00.21.061.01.01.0KAQW21720018037501.53.00.21.061.01.01.0KAQW213S20015001.53.00.21.061.01.01.01.0KAQW213S25015001.53.00.21.081.01.51.51.01.5KAQW210S40050001.53.00.21.081.01.51.51.01.01.5KAQW210F4001501.53.00.21.081.01.51.01.		1	600				3.0	0.2					
KAQW212S         KAQW212S         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         400         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.5           KAQW213H         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         350         1.5         3.0         0.2         1.0	KAQW212S         KAQW212         KAQW212         KAQW212         400         1500         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212         KAQW217S         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217F         180         1500         1.5         3.0         0.2         1.0         6.6         1.0         1.0           KAQW217S         180         3750         1.5         3.0         0.2         1.0         6.6         1.0         1.0           KAQW213         180         3750         1.5         3.0         0.2         1.0         6.6         1.0         1.0           KAQW213         200         1500         1.5         3.0         0.2         1.0         8.0         1.0         1.5           KAQW2105         200         3750         1.5         3.0         0.2         1.0         8.0         1.0         1.0	KAQW212S         KAQW212         KAQW214         KAQW215         KAQW217         KAQW216         Mad         Jaba           KAQW213         KAQW213         Mad         Jaba         Jaba <thjaba< th=""> <thjaba< th="">         Jaba<td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thjaba<></thjaba<>		1											
KAQW212         60         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         KAQW217         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         KAQW217H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.0           KAQW210S         130         1500	KAQW212 KAQW212H         60         400         3750         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW212H         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         KAQW213S         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KAQW214H	KAQW212         KAQW212         KAQW212H         KAQW217H         KAQW217F         KAQW213F         Main         Jiso													
KAQW212H         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213S         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         130         1500         1.5         3.0         0.2         1.0         8         1.0         1.0           KAQW210S         130         3750         1.5         3.0         0.2 <td< td=""><td>KAQW212H         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217F         KAQW217F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW217F         KAQW213F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213F         KAQW213F         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213F         KAQW213F         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5         1.0           KAQW210F         250         200         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0         1.0           KAQW210F         XAQW214F         130         5000</td><td>KAQW212H         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         KAQW217H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         KAQW213S         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         KAQW213S         1.6         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213S         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         XAQW210F         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210F         XAQW210F         350         1500         1.5         3.0         0.2         1.0         20         1.0         1.0     &lt;</td><td></td><td>1</td><td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	KAQW212H         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217F         KAQW217F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW217F         KAQW213F         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213F         KAQW213F         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213F         KAQW213F         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5         1.0           KAQW210F         250         200         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0         1.0           KAQW210F         XAQW214F         130         5000	KAQW212H         KAQW217S         400         5000         1.5         3.0         0.2         1.0         0.83         1.5         1.5           KAQW217S         KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         KAQW217H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         KAQW213S         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         KAQW213S         1.6         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213S         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         XAQW210F         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210F         XAQW210F         350         1500         1.5         3.0         0.2         1.0         20         1.0         1.0     <		1	60										
KAQW217S         KAQW217         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         KAQW217H         200         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW217H         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         8         1.0         1.5         1.0           KAQW213S         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5         1.0           KAQW210S         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.0         1.0           KAQW210S         350         1.50         1.5         3.0         0.2         1.0	KAQW217S         KAQW217S         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW217H         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         180         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210H         200         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0         1.0           KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KAQW2	KAQW217S         KAQW217         180         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217         KAQW217         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213         KAQW213         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213         KAQW213         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213         KAQW213         1.0         1.0         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW2105         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.0           KAQW2104         350         150         3.0         0.2         1.0         20         1.0         1.0           KAQW2145         130		4	00										
KAQW217 KAQW217H         200         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         1         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         1         180         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213S         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210         1.0         1.0         1.0         1.0         1.0         1.0         1.0           KAQW210H         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0           KAQW210H         1.00         1.0         1.0	KAQW217 KAQW217H         200         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0         1.0           KAQW213S         1.0         1.0         1.0         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213F         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210F         350         1500         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214S         350         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KAQW214F         <	KAQW217 KAQW213K         200         180         3750         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW217H         KAQW213K         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213K         Image: KaQW213         Image: KaQW213         200         1500         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213K         Image: KaQW213         Image: KaQW210K         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210K         Image: KaQW210K		4											
KAQW217H         KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         KAQW213S         200         1500         1.5         3.0         0.2         1.0         6         1.0         1.0         1.5           KAQW213S         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         350         1.50         1.5         3.0         0.2         1.0         8         1.0         1.0           KAQW210H         350         1500         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KAQW210H         130	KAQW217H         KAQW213S         180         5000         1.5         3.0         0.2         1.0         6         1.0         1.0           KAQW213S         KAQW213S         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213S         XAQW213F         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H         XAQW210S         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         XAQW210F         XAQW210F         130         1500         1.5         3.0         0.2         1.0         8         1.0         1.0           KAQW210F         XAQW214S         350         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         XAQW214S         130         3750         1.5         3.0         0.2         1.0         2.0         1.0         1.0           KAQW214F         XAQW214F         130         3750         1.5         3.0         0.2         1.0         2.	KAQW217H         KAQW213S         Image: Constraint of the state of													
KAQW213S         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213         Image: KaQW213         Image: KaQW213         Image: KaQW210S         Image: KaQW210S <td>KAQW213S         Z00         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213         XAQW213         Z00         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H         XAQW210         Z00         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         XAQW210         XAQW214         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW216S         XAQW216S</td> <td>KAQW213S         L         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213K         L         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213K         L         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210K         L         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210K         L         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0         1.0           KAQW210K         L         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214K         KAQW214         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214H         KAQW214F         400         130         3750         1.5         3.0         0.2</td> <td>KAQW217</td> <td>1</td> <td>200</td> <td>180</td> <td>3750</td> <td>1.5</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> <td>6</td> <td>1.0</td> <td>1.0</td> <td></td>	KAQW213S         Z00         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213         XAQW213         Z00         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H         XAQW210         Z00         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         XAQW210         XAQW214         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW214H         XAQW216S	KAQW213S         L         200         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213K         L         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213K         L         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210K         L         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210K         L         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0         1.0           KAQW210K         L         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214K         KAQW214         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214H         KAQW214F         400         130         3750         1.5         3.0         0.2	KAQW217	1	200	180	3750	1.5	3.0	0.2	1.0	6	1.0	1.0	
KAQW213 KAQW213H         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         1         130         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         1         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         1         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         1         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW213 KAQW213H KAQW210S         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H KAQW210S         1         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         1         130         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         1         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         1         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0	KAQW213 KAQW213H KAQW213H KAQW210S         250         200         3750         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW213H KAQW210S         1         200         5000         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210S         1         130         1500         1.5         3.0         0.2         1.0         8         1.0         1.5           KAQW210H         1         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         1         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW217H	J		180	5000	1.5	3.0	0.2	1.0	6	1.0	1.0	
KAQW210S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW2101         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW210H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW210S KAQW210 KAQW210H         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210 KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW2105 KAQW2101 KAQW2104         Image: Constraint of the symbol integration of the symbol integratintequating andintegration of the symbol integration of the symbol	KAQW213S			200	1500	1.5	3.0	0.2	1.0	8	1.0	1.5	
KAQW210S         Image: Constraint of the system	KAQW210S KAQW210 KAQW210H         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210 KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW2105 KAQW2101 KAQW2104         Image: Constraint of the symbol integration of the symbol integratintequating andintegration of the symbol integration of the symbol	KAQW213		250	200	3750	1.5	3.0	0.2	1.0	8	1.0	1.5	
KAQW210S         Image: Constraint of the system	KAQW210S KAQW2101 KAQW210H         Image: mark with the symbol withe symbol wi	KAQW2105 KAQW2101 KAQW2104         Image: Constraint of the symbol integration of the symbol integratintequating andintegration of the symbol integration of the symbol	KAQW213H	141 434		200	5000	1.5	3.0	0.2	1.0	8	1.0	1.5	
KAQW210 KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW210 KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW210 KAQW210H         350         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW210H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         400         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW216         600         120													
KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW216S         100         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5		¥ [∄]	350										
KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         20         1.0         1.0	KAQW214S         130         1500         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0         1.0           KAQW214H         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW216S         100         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5		141 ***	000										
	KAQW214         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW214 KAQW214H         400         130         3750         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW216         100         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5		$$											
	KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0           KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW216S         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5		4											
	KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5           KAQW216         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5			400			1.5							
KAQW214H         130         5000         1.5         3.0         0.2         1.0         20         1.0         1.0		KAQW216         600         120         3750         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW214H	1		130	5000	1.5	3.0	0.2	1.0	20	1.0	1.0	
KAQW216S         120         1500         1.5         3.0         0.2         1.0         35         1.0         1.5	KAQW216 600 120 3750 1.5 3.0 0.2 1.0 35 1.0 1.5		KAQW216S	J		120	1500	1.5	3.0	0.2	1.0	35	1.0	1.5	
KAQW216 600 120 3750 1.5 3.0 0.2 1.0 35 1.0 1.5		KAQW216H 120 5000 1.5 3.0 0.2 1.0 35 1.0 1.5	KAQW216		600	120	3750	1.5	3.0	0.2	1.0	35	1.0	1.5	
	KAQW216H 120 5000 1.5 3.0 0.2 1.0 35 1.0 1.5		KAQW216H			120	5000	1.5	3.0	0.2	1.0	35	1.0	1.5	

		Absolut	e Maximum	Open / Lo Ratings	ow input v	Surrent o		optical Chara	A.			Remark
Model Number	Schematic	V <sub>B</sub> (V)	I <sub>L</sub> (mA)	V <sub>ISO</sub> (Vrms)	V <sub>F</sub> (V) Max.	I <sub>FON</sub> (mA) Max.	I <sub>FOFF</sub> (mA) Min.	I <sub>TOFF</sub> (μΑ) Max.	R <sub>on</sub> (Ω) Typ.	T <sub>ON</sub> (mS) Max.	T <sub>OFF</sub> (mS) Max.	Description
KAQY212SE	÷.	60	200	1500	1.5	2.0	0.2	1.0	7	1.5	1.0	
KCP1017		60	130	1500	1.5	1.0	0.2	1.0	7	1.0	1.0	
KCP1008	<u>ф'''</u> ф	100	150	1500	1.5	3.0	0.2	1.0	6	2.0	1.0	
KAQV253	ь ъ	250	200	3750	1.5	3.0	0.2	1.0	5	1.0	1.5	
KAQV253H	]≵₁¥[	250	200	5000	1.5	3.0	0.2	1.0	5	1.0	1.5	
KAQV254	d ₿₽	400	150	3750	1.5	3.0	0.2	1.0	12	1.0	1.5	
KAQV254H	<u>е</u> ч	400	150	5000	1.5	3.0	0.2	1.0	12	1.0	1.5	

					Normal	Close Ty	ре					
		Absolut	e Maximum	Ratings			Electro-C	Optical Chara	acteristics			Remark
Model Number	Schematic	V <sub>B</sub> (V)	I∟ (mA)	V <sub>ISO</sub> (Vrms)	V <sub>F</sub> (V) Max.	I <sub>FOFF</sub> (mA) Max.	l <sub>FON</sub> (mA) Min.	I <sub>τοϝ</sub> (μΑ) Max.	R <sub>οN</sub> (Ω) Typ.	T <sub>ON</sub> (mS) Max.	T <sub>OFF</sub> (mS) Max.	Description
KAQY412S			200	1500	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQY412		60	200	3750	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQY412H	↓  ⊾		200	5000	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQY414S			130	1500	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQY414		400	130	3750	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQY414H			130	5000	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQV412S			200	1500	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQV412		60	200	3750	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQV412H	_ ¥_⊣¦∟		200	5000	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQV414S	╒┤╠ <u></u> ╞		130	1500	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQV414	Ы Ц	400	130	3750	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQV414H			130	5000	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQW412S			200	1500	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQW412	T∎ df	60	200	3750	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQW412H			200	5000	1.5	3.0	0.2	2.0	2.5	1.5	1.5	
KAQW414S	╎╼╜╵╼╹ ╱┺┹╷╎╼┹╴		130	1500	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQW414	▏▟▔▝▋▖▏	400	130	3750	1.5	3.0	0.2	2.0	25	1.5	1.0	
KAQW414H			130	5000	1.5	3.0	0.2	2.0	25	1.5	1.0	

				Norma	I Close +	Normal	Open Typ	e				
		Absolut	e Maximum	Ratings			Electro-C	ptical Chara	acteristics			Remark
Model Number	Schematic	V <sub>B</sub> (V)	I∟ (mA)	V <sub>ISO</sub> (Vrms)	V <sub>F</sub> (V) Max.	I <sub>FON</sub> (mA) Max./Min.	I <sub>FOFF</sub> (mA) Min./Max.	I <sub>TOFF</sub> (μΑ) Max.	R <sub>on</sub> (Ω) Typ.	T <sub>on</sub> (mS) Max.	T <sub>OFF</sub> (mS) Max.	Description
KAQW612S			200	1500	1.5	N.O=3.0 N.C=0.2	N.O=0.2 N.C=3.0	N.O=1.0 N.C=2.0	N.O=0.83 N.C=2.50	N.O=1.5 N.C=1.5	N.O=1.5 N.C=1.5	
KAQW612		60	200	3750	1.5	N.O=3.0 N.C=0.2	N.O=0.2 N.C=3.0	N.O=1.0 N.C=2.0	N.O=0.83 N.C=2.50	N.O=1.5 N.C=1.5	N.O=1.5 N.C=1.5	
KAQW612H			200	5000	1.5	N.O=3.0 N.C=0.2	N.O=0.2 N.C=3.0	N.O=1.0 N.C=2.0	N.O=0.83 N.C=2.50	N.O=1.5 N.C=1.5	N.O=1.5 N.C=1.5	
KAQW614S			130	1500	1.5	N.O=3.0 N.C=0.2	N.O=0.2 N.C=3.0	N.O=1.0 N.C=2.0	N.O=20 N.C=25	N.O=1.0 N.C=1.5	N.O=1.5 N.C=1.0	
KAQW614	ч <u> </u> Р	400	130	3750	1.5	N.O=3.0 N.C=0.2	N.O=0.2 N.C=3.0	N.O=1.0 N.C=2.0	N.O=20 N.C=25	N.O=1.0 N.C=1.5	N.O=1.5 N.C=1.0	
KAQW614H			130	5000	1.5	N.O=3.0 N.C=0.2	N.O=0.2 N.C=3.0	N.O=1.0 N.C=2.0	N.O=20 N.C=25	N.O=1.0 N.C=1.5	N.O=1.5 N.C=1.0	





**Reed Relay** 

**Reed Relay** 

					S Ty	/pe						
				Coil R	atings			E	lectrical Cha	racteristics		
Model Number	Schematic	Contact	Coil	Nominal	Must	Must	Contact	Insulation	Power	Switching	Switching	Breakdow
Model Humber	Concinatio	Form	Resistance	Coil Voltage	Operate	Release	Resistance	Resistance	Consumption	Voltage	Current	Voltage
			+/- 10% Ω	(VDC)	(VDC)	(VDC)	(mΩ max)	(Ω min)	(VA max)	(VDC max)	(A max)	(VDC min
S1A050000		1 form A	500	5	3.75	1.0	100	10 <sup>11</sup>	10	200	0.5	1000
S1A120000		1 form A	1000	12	9	1.2	100	10 <sup>11</sup>	10	200	0.5	1000
S1A240000	1 3 5 7 (+) (-)	1 form A	2000	24	18	2.4	100	10 <sup>11</sup>	10	200	0.5	1000

					SS T	уре						
				Coil R	atings			E	Electrical Cha	racteristics		
Model Number	Schematic	Contact Form	Coil Resistance +/- 10% Ω	Nominal Coil Voltage (VDC)	Must Operate (VDC)	Must Release (VDC)	Contact Resistance (mΩ max)	Insulation Resistance (Ω min)	Power Consumption (VA max)	Switching Voltage (VDC max)	Current	Breakdown Voltage (VDC min)
SS1A050000		1 form A	500	5	3.75	1.0	100	10 <sup>11</sup>	10	200	0.5	2500
SS1A120000		1 form A	1000	12	9	1.2	100	10 <sup>11</sup>	10	200	0.5	2500
SS1A240000	1 8 7 9 (+) (-)	1 form A	2000	24	18	2.4	100	10 <sup>11</sup>	10	200	0.5	2500
SS1C050000		1 form C	200	5	3.75	1.0	150	10 <sup>9</sup>	3	100	0.25	1000
SS1C120000		1 form C	500	12	9	1.2	150	10 <sup>9</sup>	3	100	0.25	1000
SS1C240000	1 +3 -789	1 form C	2000	24	18	2.4	150	10 <sup>9</sup>	3	100	0.25	1000

					СТу	ype						
				Coil R	atings			E	lectrical Cha	racteristics		
Model Number	Schematic	Contact Form	Coil Resistance +/- 10% Ω	Nominal Coil Voltage (VDC)	Must Operate (VDC)	Must Release (VDC)	Contact Resistance (mΩ max)	Insulation Resistance (Ω min)	Power Consumption (VA max)	0	Current	Breakdown Voltage (VDC min)
C2C050M01		2 form C	200	5	3.75	0.8	150	10 <sup>9</sup>	3	100	0.25	4000
C2C120M01		2 form C	500	12	9	1.8	150	10 <sup>9</sup>	3	100	0.25	4000
C2C240M01		2 form C	2000	24	18	3.6	150	10 <sup>9</sup>	3	100	0.25	4000

					CG T	уре						
				Coil R	atings			E	Electrical Cha	racteristics		
Model Number	Schematic	Contact Form	Coil	Nominal	Must	Must	Contact	Insulation	Power	Switching		Breakdown
		FUIII	Resistance +/- 10% Ω	Coil Voltage (VDC)	Operate (VDC)	Release (VDC)	Resistance (mΩ max)	Resistance (Ω min)	Consumption (VA max)	Voltage (VDC max)	Current (A max)	Voltage (VDC min)
CG1A030000	ご ♥ じ	1 form A	63	3	2.1	0.3	150	10 <sup>9</sup>	10	100	0.5	3000
CG1A050000	<b>1 ●   2 ●    </b>	1 form A	500	5	3.5	0.5	150	10 <sup>9</sup>	10	100	0.5	3000
CG1A060000	لرمعها	1 form A	250	6	4.2	0.6	150	10 <sup>9</sup>	10	100	0.5	3000
CG1A090000		1 form A	700	9	6.3	0.9	150	10 <sup>9</sup>	10	100	0.5	3000
CG1A120000		1 form A	1050	12	8.4	1.2	150	10 <sup>9</sup>	10	100	0.5	3000
CG1A240000	4	1 form A	2080	24	16.8	2.4	150	10 <sup>9</sup>	10	100	0.5	3000

					DT	Ino						
				Coil R	atings	ype		E	Electrical Cha	racteristics		
Model Number	Schematic	Contact Form	Coil Resistance +/- 10% Ω	Nominal Coil Voltage (VDC)	Must Operate (VDC)	Must Release (VDC)	Contact Resistance (mΩ max)	Insulation	Power Consumption (VA max)	Switching Voltage (VDC max)	Switching Current (A max)	Breakdown Voltage (VDC min)
D11A050000	14 13 0 0	11 fizinin A	500	ন্ড	3.75	11.00	100	10 <sup>11</sup>	10	200	0.5	500
D1A120000		11 fizinn A	1000	1122	ණ	11.22	100	10 <sup>11</sup>	10	200	0.5	500
D1/A240000	1 2 6 7 (*)	11 fizinin A	211500	24	1188	2.4	100	10 <sup>11</sup>	10	200	0.5	500
D11B050000	14 13 • • • • • • • •	11 fizinin B	500	łs	3.75	11.00	100	10 <sup>11</sup>	10	200	0.5	500
D11B120000		11 fizirim B	1000	1122	ණ	11.22	100	10 <sup>11</sup>	10	200	0.5	500
D11B240000	1 2 6 T	11 ftorinn B	211500	24	1188	2 <u>.4</u>	100	10 <sup>11</sup>	10	200	0.5	500
D1C050000		11 fizinin C	200	5	3.75	11.00	11550	10 <sup>9</sup>	3	100	0.25	500
D1C120000		11 fizirim C	500	1122	<b>(</b> 9)	11.22	11550	10 <sup>9</sup>	3	100	0.25	500
D1C240000	12 67 (†)	11 fitorinin C	211500	24	1188	<u>2.4</u>	11500	10 <sup>9</sup>	3	100	0.25	500
D2A050000		2. fizirim A	114400	5	3.75	11.00	100	10 <sup>11</sup>	10	200	0.5	500
D2A120000		22 fizirim A	500	1122	<b>(</b> 9)	11.22	100	10 <sup>11</sup>	10	200	0.5	500
D2A240000	₩ 1. 22 32 32 32 32 32 32 32 32 32 32 32 32	2. fizrinin A	211500	24	1188	<u>2.4</u>	100	10 <sup>11</sup>	10	200	0.5	500
D1A051000	144 143	11 fizinin A	500	5	3.75	11.00	100	10 <sup>11</sup>	10	200	0.5	500
D1A121000		11 fizinin A	1000	1122	෯	11.22	100	10 <sup>11</sup>	10	200	0.5	500
D1A241000	મ મ સ્ટ્રે	11 fizinin A	211500	24	1188	<u>2.4</u>	100	10 <sup>11</sup>	10	200	0.5	500
D11B0511000	1413 98 98	11 fizirim B	500	5	3.75	11.00	100	10 <sup>11</sup>	10	200	0.5	500
D111812110000		11 fizinin B	1000	112	<b>(</b> 9)	11.22	100	10 <sup>11</sup>	10	200	0.5	500
D11B24110000	1 2 66 77 (+) (-)	11 fizinn B	211500	24	1188	<u>2.4</u>	100	10 <sup>11</sup>	10	200	0.5	500
D11C0511000	14 13 9 8 • • •	11 fiorinn C	200	5	3.75	11.00	11500	10 <sup>9</sup>	3	100	0.25	500
D11C11211000		11 fizinin C	500	112	ණ	11.22	11500	10 <sup>9</sup>	3	100	0.25	500
D11C2411000	12 67 (†)	11 fiorinn C	21150	24	1188	2.4	11500	10 <sup>9</sup>	3	100	0.25	500
D2A051000	14 13 9 8	22 fitorinin A	11440	5	3.75	11.00	100	10 <sup>11</sup>	10	200	0.5	500
D2A112110000		2 form A	500	1122	<b>(</b> 9)	11.22	100	10 <sup>11</sup>	10	200	0.5	500
D2A241000	12 67 (+) (-)	2 fizinin A	2211550	24	1188	<u>2.4</u>	100	10 <sup>11</sup>	10	200	0.5	500

					DH T	уре						
				Coil R	atings			E	Electrical Cha	racteristics		
Model Number	Schematic	Contact	Coil	Nominal	Must	Must	Contact	Insulation	Power	Switching	Switching	Breakdown
model Humber	Concinatio	Form	Resistance	Coil Voltage	Operate	Release	Resistance	Resistance	Consumption	Voltage	Current	Voltage
	_		+/- 10% Ω	(VDC)	(VDC)	(VDC)	(mΩ max)	(Ω min)	(VA max)	(VDC max)	(A max)	(VAC min)
DH11A050000	144	11 ferrinn A	500	5	3.75	1.0	100	10 <sup>11</sup>	10	200	0.5	4000
DH11A11200000		11 fizinin A	110000	1122	෯	11.22	100	10 <sup>11</sup>	10	200	0.5	4000
DH11A2400000	22 66 (44) (4-)	11 fizinin A	211550	24	1188	<u>2.4</u>	100	10 <sup>11</sup>	10	200	0.5	4000





#### **Reed Relay**

#### **SSR - TRIAC Output**

				Pro	oximity S	ensor Ty	ре					
Model Number	Schematic	Contact Form	Coil Resistance +/- 10% Ω	Totel Pull-In Sensitivity (AT)	Must Operate (VDC)	Must Release (VDC)	Contact Resistance (mΩ max)	Insulation Resistance (Ω min)	Power Consumption (VA max)		Current	Breakdown Voltage (VDC min)
P3-1A15		1 form A	=	10-40	-	-	150	10 <sup>9</sup>	1	24	0.1	150
P3-1A16	•	1 form A	-	10-40	-	-	150	10 <sup>9</sup>	1	24	0.1	150
P3-1A17		1 form A	-	10-40	-	-	150	10 <sup>9</sup>	1	24	0.1	150
P1-1A15 P010		1 form A	_	_	_	_	200	_	10	200	0.5	250

				Ree	ed Senso	r - MK Ty	ре					
Madal Number	Cohomotio	Contact	Coil	Totel Pull-In		Must Release	Contact	Insulation		Ŭ	Ŭ,	Breakdown
Model Number Schematic	Schematic	Form	Resistance +/- 10% Ω	Sensitivity (AT)	Operate (VDC)	(VDC)	(mΩ max)	Resistance (Ω min)	Consumption (VA max)		Current (A max)	Voltage (VDC min)
MK-0150		1 form A	150	10-40	-	-	100	10 <sup>10</sup>	5	100	0.5	150

\* Standard + Diode = D (D1A050D00) \* Standard + Electrostatic Shield = M (D1A050M00) \* Electrostatic Shield + Diode = X (D1A050X00)

				Triac (	Output						
			A	bsolute Ma	aximum F	Ratings			Electrical Ch	naracteristic	S
KSA225AC8 KSA240AC8 KSA425AC8 KSA425AC8 KSD203AC3 KSD205AC3 KSD210AC3 KSD215AC3 KSD225AC3 VIN	Schematic	Input Voltage	Input Type	Output Voltage	Output Type	RMS on-state current (A)	Isolation voltage input to output (V)	On-state voltage (V max)	Leakage current (mA max)	Load Voltage Rating (VAC)	Zero Cross
KSD210AC8		4 ~ 32	VDC	250	VAC	10	4000	1.5	7	50~280	Y
KSD215AC8		4 ~ 32	VDC	250	VAC	15	4000	1.5	7	50~280	Y
KSD225AC8	<b>   ₹ <u> </u> ₹                                      </b>	4 ~ 32	VDC	250	VAC	25	4000	1.5	7	50~280	Y
KSD240AC8		4 ~ 32	VDC	250	VAC	40	4000	1.5	7	50~280	Y
KSD425AC8	VIN LOAD	4 ~ 32	VDC	480	VAC	25	4000	1.5	14	75~480	Y
KSD440AC8		4 ~ 32	VDC	480	VAC	40	4000	1.5	14	75~480	Y
KSA210AC8		100 ~ 240	VAC	250	VAC	10	4000	1.5	7	50~280	Y
KSA215AC8		100 ~ 240	VAC	250	VAC	15	4000	1.5	7	50~280	Y
KSA225AC8		100 ~ 240	VAC	250	VAC	25	4000	1.5	7	50~280	Y
KSA240AC8		100 ~ 240	VAC	250	VAC	40	4000	1.5	7	50~280	Y
KSA425AC8	VIN LOAD	100 ~ 240	VAC	480	VAC	25	4000	1.5	14	75~480	Y
KSA440AC8	CIA Dono	100 ~ 240	VAC	480	VAC	40	4000	1.5	14	75~480	Y
KSD203AC3		5 ~ 12	VDC	250	VAC	3	4000	1.5	7	50~280	Y
KSD205AC3		5 ~ 12	VDC	250	VAC	5	4000	1.5	7	50~280	Y
KSD210AC3		5 ~ 12	VDC	250	VAC	10	4000	1.5	7	50~280	Y
KSD215AC3		5 ~ 12	VDC	250	VAC	15	4000	1.5	7	50~280	Y
KSD225AC3	VIN LOAD	5 ~ 12	VDC	250	VAC	25	4000	1.5	7	50~280	Y
KSD240AC3		5 ~ 12	VDC	250	VAC	40	4000	1.5	7	50~280	Y
KSD203AC2	VIN LOAD	4~32	VDC	250	VAC	3	4000	1.5	7	50~280	Y

			Т	ransisto	or Outp	out					
		Absolute Maximum Ratings							Electrical Cl	naracteristic	s
Model Number	Schematic	Input Voltage	Input Type	Collector voltage	Output Type	RMS on-state current (A)	Isolation voltage (V)	Collector -emitter saturation voltage (V max)	Leakage	Collector current (mA min)	Zero Cross
KSD203DC2	VIN LOAD	4~24	VDC	100	VDC	3	4000	2	15	50	_



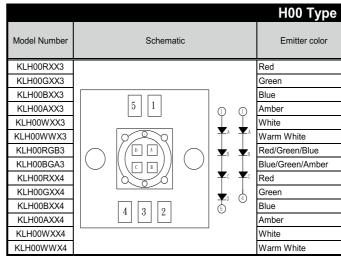


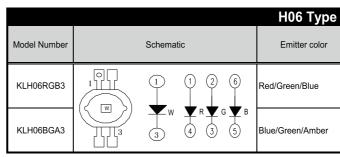
**Photo Link** 

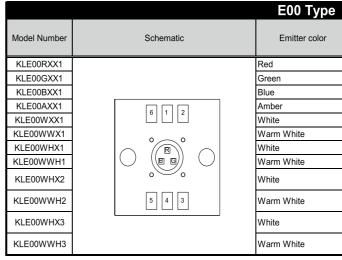
**High Power LED** 

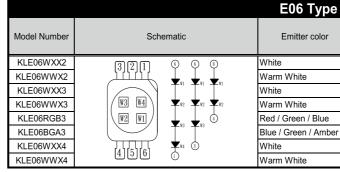
	Transmitter											
Model Number	λ <sub>P</sub> (nm)	T (Mbps)		cc V)	I <sub>CC</sub> (mA)		P <sub>f</sub> 3m)	t <sub>PLH</sub> (ns)	t <sub>PHL</sub> (ns)		w is)	
	(1111)	(ivibps)	Min.	Max.	Max.	Min.	Max.	Max.	Max.	Min.	Max.	
KPLT1320M1	650	16	2.7	5.5	8	-21	-15	100	100	-20	20	
KPLT1320M3	650	16	2.7	5.5	8	-21	-15	100	100	-20	20	
KPLT1320M4	650	16	2.7	5.5	8	-21	-15	100	100	-20	20	
KPLT1320M5	650	16	2.7	5.5	8	-21	-15	100	100	-20	20	
KPLT1320M9	650	16	2.7	5.5	8	-21	-15	100	100	-20	20	
KPLT2500M1	650	25	2.7	5.5	8	-21	-15	100	100	-12	12	
KPLT2500M3	650	25	2.7	5.5	8	-21	-15	100	100	-12	12	
KPLT2500M4	650	25	2.7	5.5	8	-21	-15	100	100	-12	12	
KPLT2500M5	650	25	2.7	5.5	8	-21	-15	100	100	-12	12	
KPLT2500M9	650	25	2.7	5.5	8	-21	-15	100	100	-12	12	
KPLT5000M1	650	50	2.7	5.5	8	-21	-15	50	50	-6	6	
KPLT5000M3	650	50	2.7	5.5	8	-21	-15	50	50	-6	6	
KPLT5000M4	650	50	2.7	5.5	8	-21	-15	50	50	-6	6	
KPLT5000M5	650	50	2.7	5.5	8	-21	-15	50	50	-6	6	
KPLT5000M9	650	50	2.7	5.5	8	-21	-15	50	50	-6	6	

					Recei	ver					
Model Number	λ <sub>P</sub>	Т		cc √)	I <sub>CC</sub> (mA)		⊃ <sub>i</sub> Bm)	t <sub>PLH</sub> (ns)	t <sub>PHL</sub> (ns)	t <sub>r</sub> / t <sub>f</sub> (ns)	tw
	(nm)	(Mbps)	Min.	Max.	Max.	Min.	Max.	Max.	Max.	Max.	(ns)
KPLR1320M1	650	16	2.7	5.25	13	-27	-14.5	180	180	20	±20
KPLR1320M3	650	16	2.7	5.25	13	-27	-14.5	180	180	20	±20
KPLR1320M4	650	16	2.7	5.25	13	-27	-14.5	180	180	20	±20
KPLR1320M5	650	16	2.7	5.25	13	-27	-14.5	180	180	20	±20
KPLR2500M1	650	25	2.7	5.25	13	-27	-14.5	100	100	20	±20
KPLR2500M3	650	25	2.7	5.25	13	-27	-14.5	100	100	20	±20
KPLR2500M4	650	25	2.7	5.25	13	-27	-14.5	100	100	20	±20
KPLR2500M5	650	25	2.7	5.25	13	-27	-14.5	100	100	20	±20











λD	VF @IF=350mA	Luminous Flux	View angle
(nm)	(V)	(lm)	(20 1/2)
Тур.	Typ. ~ Max.	Min. ~ Typ.	(20 1/2)
625	7.2~9.6	60~70	
525	10.8~12	100~125	
460	10.8~12	15~20	
590	7.2~7.8	60~70	
4500 ~ 9000K	10.8~12	170~220	
2500 ~ 3500K	10.8~12	90~160	
625 / 525 / 460	8.4~10.5	65~85	120°
460 / 525 / 590	8.6~10.6	65~85	120
625	9.6~12.8	70~80	
525	14.4~16	130~160	
460	14.4~16	20~25	
590	9.6~10.4	70~80	
4500 ~ 9000K	14.4~16	240~280	
2500 ~ 3500K	14.4~16	120~210	

)				
	λD (nm) Typ.	VF @IF=350mA (V) Typ. ~ Max.	Luminous Flux (Im) Min. ~ Typ.	View angle (20 1/2)
	625 / 525 / 460	8.4~10.5	65~85	120°
	460 / 525 / 590	8.4~10.5	65~85	120

)				
	λD	VF @IF=350mA	Luminous Flux	View angle
	(nm)	(V)	(lm)	(20 1/2)
	Тур.	Typ. ~ Max.	Min. ~ Typ.	(20 1/2)
	625	2.4~3.2	25~30	
	525	3.6~4	35~45	
	460	3.6~4	5~10	
	590	2.4~2.6	25~30	
	4500 ~ 9000K	3.6~4	60~80	
	2500 ~ 3500K	3.6~4	30~60	
	4500 ~ 9000K	3.4~3.6	70~100	1000
	2500 ~ 3500K	3.4~3.6	45~70	120°
	4500 ~ 9000K	3.5~3.8 (@IF=700mA)	110~180	
	2500 ~ 3500K	3.5~3.8 (@IF=700mA)	80~90	
	4500 ~ 9000K	3.7~3.9 (@IF=1000mA)	160~260	
	2500 ~ 3500K	3.7~3.9 (@IF=1000mA)	120~140	

)				
	λD (nm) Typ.	VF @IF=350mA (V) Typ. ~ Max.	Luminous Flux (Im) Min. ~ Typ.	View angle (20 1/2)
	4500 ~ 9000K	7.2~8	110~150	
	2500 ~ 3500K	7.2~8	60~110	
	4500 ~ 9000K	10.8~12	170~220	
	2500 ~ 3500K	10.8~12	90~160	120°
	625 / 525 / 460	8.4~10.5	65~85	120
r	460 / 525 / 590	8.6~10.6	65~85	
	4500 ~ 9000K	14.4~16	240~280	
	2500 ~ 3500K	14.4~16	120~210	



KLS00WHX3

KLS00WWH3

#### **High Power LED**

160~260

120~140

3.7~3.9

@IF=1000mA)

3.7~3.9

@)IF=1000m

4500 ~ 9000K

2500 ~ 3500K

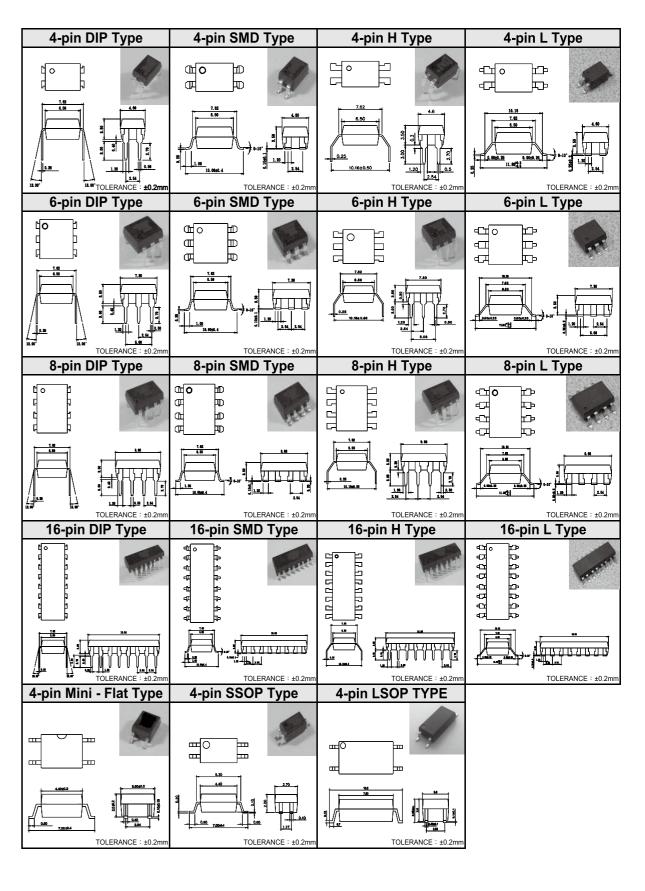
#### **Package Outside Dimension** *Photo Coupler*

S00 Type λD VF @IF=350mA Luminous Flux View angle (nm) Typ. (V) Typ. ~ Max. (Im) Min. ~ Typ. Model Number Schematic Emitter color (20 1/2) KLS00RXX1 625 2.4~3.2 25~30 Red KLS00GXX1 525 3.6~4 35~45 Green KLS00BXX1 460 3.6~4 5~10 Blue KLS00AXX1 Amber 590 2.4~2.6 25~30 KLS00WXX1 4500 ~ 9000K 3.6~4 60~80 White 2500 ~ 3500K 30~60 KLS00WWX1 Warm White 3.6~4 KLS00WHX1 4500 ~ 9000K 3.4~3.6 70~100 White 120° KLS00WWH1 45~70 Warm White 2500 ~ 3500K 3.4~3.6 3.5~3.8 KLS00WHX2 4500 ~ 9000K 110~180 White @IF=700mA 3.5~3.8 KLS00WWH2 Warm White 2500 ~ 3500K 80~90 @IF=700mA

		S06 Type				
Model Number	Schematic	Emitter color	λD (nm) Typ.	VF @IF=350mA (V) Typ. ~ Max.	Luminous Flux (Im) Min. ~ Typ.	View angle (20 1/2)
KLS06WXX2	0	White	4500 ~ 9000K	7.2~8	110~150	
KLS06WWX2		Warm White	2500 ~ 3500K	7.2~8	60~110	
KLS06WXX3		White	4500 ~ 9000K	10.8~12	170~220	
KLS06WWX3		Warm White	2500 ~ 3500K	10.8~12	90~160	120°
KLS06RGB3		Red / Green / Blue	625 / 525 / 460	8.4~10.5	65~85	120
KLS06BGA3	$4$ $6$ $\neq$ $\circ$	Blue / Green / Amber	460 / 525 / 590	8.6~10.6	65~85	
KLS06WXX4		White	4500 ~ 9000K	14.4~16	240~280	1
KLS06WWX4	5	Warm White	2500 ~ 3500K	14.4~16	120~210	

White

Warm White



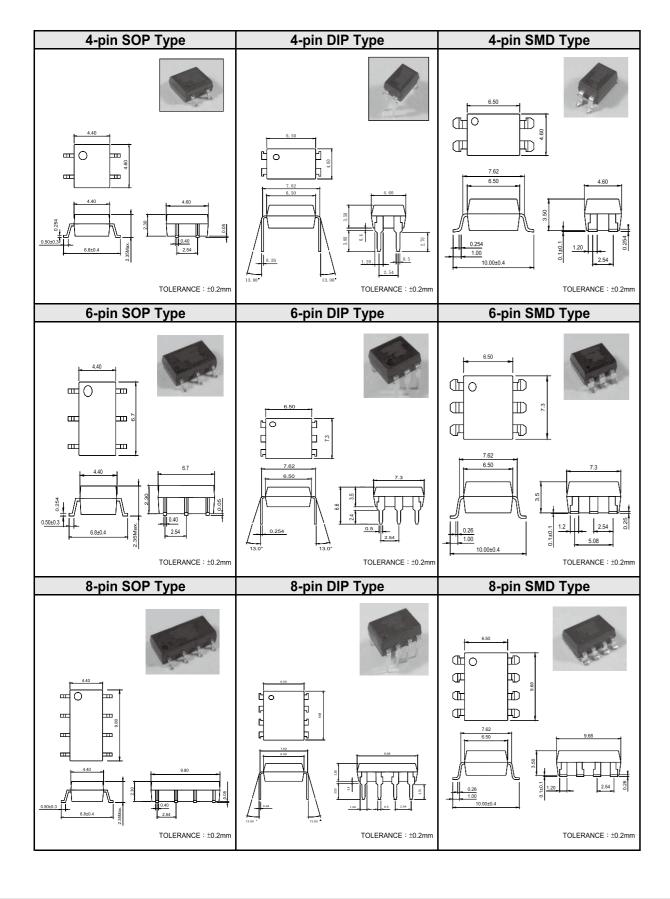


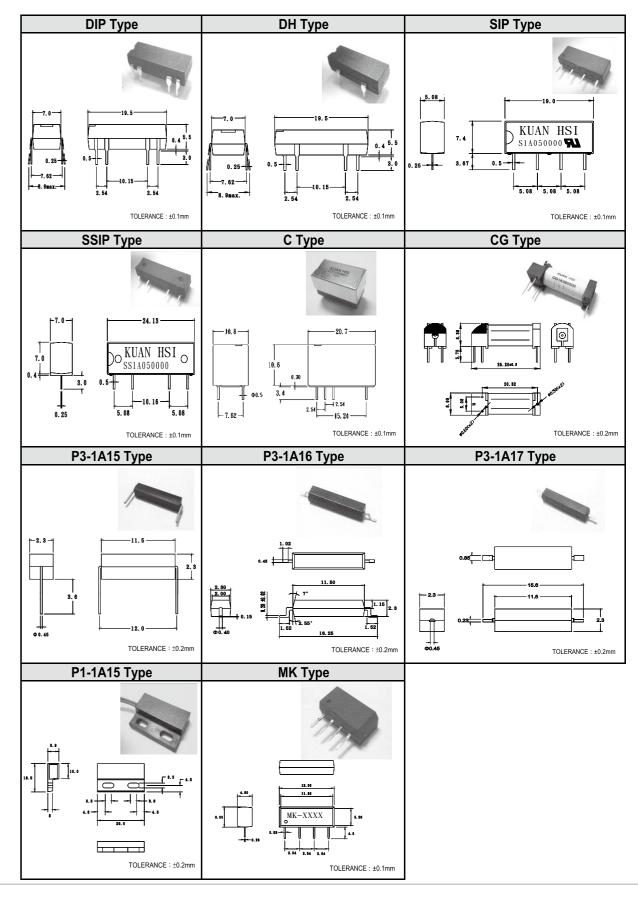


# Package Outside Dimension

SSR - MOSFET Output

**Package Outside Dimension** Reed Relay





39 **COSMO** ELECTRONICS CORPORATION http://www.cosmo-ic.com

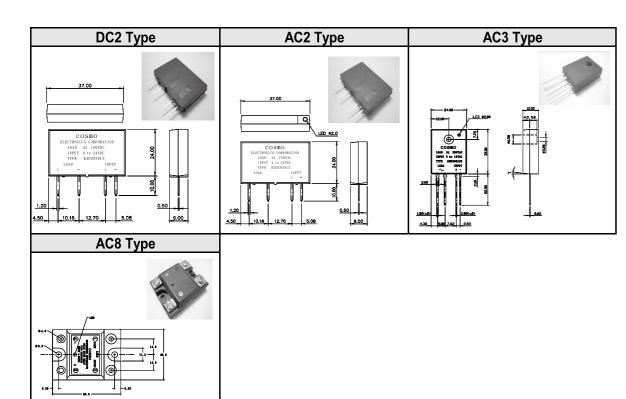


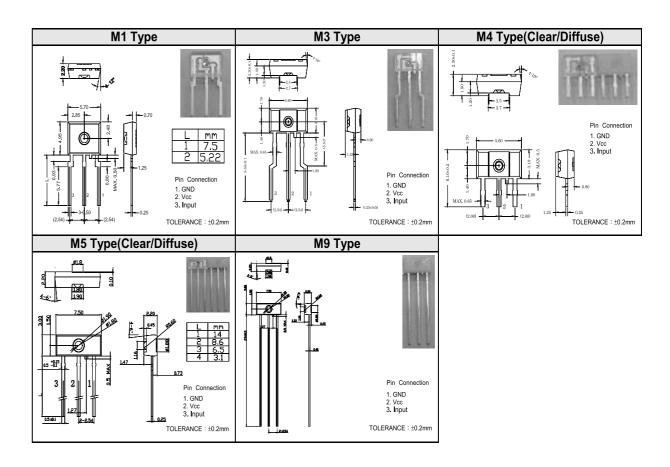


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Package Outside Dimension Photo Link







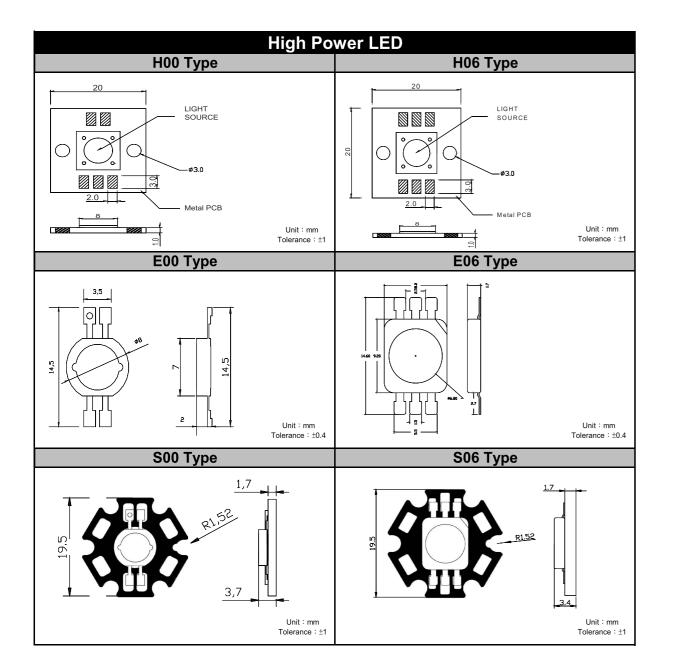


### Package Outside Dimension

**Cross Reference** 

High Power LED

Photo Coupler



FAIRCHILD	cosmo	TIL113	KPC4N33	PS2506	KPC815	TLP185	KPC357NT
FOD617	K1010	FOD815	KPC815	PS2503	K10101T	TLP127	KPC452
FOD817	K1010	K815P	KPC815	PS2705-1	KPC354NT	6N135	KPC6N135
H11A617	K1010	FOD3120	KP1510	PS2702-1	KPC355NT	6N136	KPC6N136
H11A817	K1010	FODM2705	KPC354NT	PS2701-1	KPC357NT	6N137	KPC6N137
H11A1	K2010	FODM121	KPC357NT	PS2733-1	KPC452	TLP113	KPC410
H11AG1	K2010	6N135	KPC6N135	PS9513	KPC6N136	TLP112	KPC457
MCT520	K2010	6N136	KPC6N136	PS9617	KPC6N137		
MCT521	K2010	6N137	KPC6N137	PS9113	KPC457	TOSHIBA	cosmo
4N25	K2010	6N138	KPC6N138	PS2801-1	KPS2801	TLP285	KPS2801
4N26	K2010	6N139	KPC6N139	PS2802-1	KPS2802	TLP284	KPS2805
4N27	K2010	FODM8801	KPS2801	PS2805-1	KPS2805	TLP360J	KMOC3011
4N28	K2010	HMHAA280	KPS2805	PS2806-1	KPS2806	TLP361J	KMOC3012
4N35	K2010	MOC3021M	KMOC3021	PS2832-1	KPS2832	TLP3022	KMOC3022
4N36	K2010	MOC3022M	KMOC3022	L	·]	TLP3023	KMOC3023
4N37	K2010	MOC3023M	KMOC3023	TOSHIBA	cosmo	TLP3042	KMOC3042
4N38	K2010	MOC3041M	KMOC3041	TLP781	K1010	TLP3043	KMOC3043
H11A1	K2010	MOC3042M	KMOC3042	TLP781F	K1010	TLP3052	KMOC3052
H11A2	K2010	MOC3043M	KMOC3043	TLP785	K1010	TLP561J	KMOC3053
H11A3	K2010	MOC3051M	KMOC3051	TLP785F	К1010	TLP3062	KMOC3062
H11A4	K2010	MOC3052M	KMOC3052	TLP624	K1010	TLP3063	KMOC3063
H11A5	K2010	MOC3053M	KMOC3053	TLP628	KP1210	TLP3082	KMOC3082
MCT21	K2010	MOC3061M	KMOC3061	TLP531	K2010	TLP3783	KMOC3083
MOC8100	K2010	MOC3062M	KMOC3062	TLP631	K2010	TLP160G	KTLP160G
TIL111	K2010	MOC3063M	KMOC3063	TLP731	K2010	TLP160J	KTLP160J
TIL117	K2010	MOC3081M	KMOC3081	TLP733	K2010	TLP165J	KTLP165J
CNY17	K2010	MOC3082M	KMOC3082	TLP733F	К2010	TLP260J	KTLP260J
H11D1	K2010	MOC3083M	KMOC3083	TLP331	K2010	TLP161G	KTLP161G
MOC8204	K2010	FODM3022	KTLP160G	TLP532	KP2110	TLP161J	KTLP161J
CNY17F	KP2110	FODM3052	KTLP160J	TLP632	KP2110	TLP166J	KTLP166J
MOC8106	KP2110	FODM3063	KTLP161J	TLP732	KP2110	TLP168J	KTLP168J
FOD814	K3010	FODM3083	KTLP161L	TLP734	KP2110		
H11AA814	K3010			TLP734F	KP2110	VISHAY	cosmo
FOD852	KP4010	NEC	cosmo	TLP332	KP2110	SFH615A	K1010
H11G1	KP5010	PS2501	K1010	TLP620	К3010	SFH617A	K1010
H11G2	KP5010	PS2561	K1010	TLP620F	К3010	TCET1100	K1010
H11AA1	KP6010	PS2571	K1010	TLP626	К3010	VO615A	K1010
H11AA2	KP6010	PS2581	K1010	TLP523	KP4010	VO617A	K1010
H11AA3	KP6010	PS2513	K1010	TLP627	KP4010	SFH614A	KP1210
		PS2514	K1010	TLP371	KP5010	CNY117	K2010
FAIRCHILD	cosmo	PS2505	K3010	TLP630	KP6010	CNY17	K2010
H11AA4	KP6010	PS2565	K3010	TLP571	KPC4N33	MCT5211	K2010
4N29	KPC4N33	PS2502	KP4010	TLP624	K10101T	CNY117F	KP2110
4N30	KPC4N33	PS2532	KP4010	TLP124	KPS28010T	CNY17F	KP2110
4N32	KPC4N33	PS2533	KP4010	TLP250	KTLP250	MOC8101	KP2110
4N33	KPC4N33	PS2535	KP4010	TLP350	KTLP350	MOC8106	KP2110
H11B1	KPC4N33	PS2502	KPC815	TLP184	KPC354NT	SFH640	KP2210



SFH628A	K3010
K814P	K3010
SFH620	K3010
SFH6206	K3010
SFH628	K3010
SFH6286	K3010
TCET1600	K3010
SFH612A	KP4010
SFH619A	KP4010
TCED1100	KP4010
IL66	KP5010
H11AA1	KP6010
IL255	KP6010
H11B1	KPC4N33
H11B2	KPC4N33
H11B3	KPC4N33
4N32	KPC4N33
4N33	KPC4N33
MCA231	KPC4N33
K815P	KPC815
SFH655A	KPC815
VO618A	K10101T
VOL618A	KT101T
SFH691AT	KPC354NT

VISHAY	cosmo
SFH690XT	KPC357NT
SFH692AT	KPC452
VOL617A	KT1000
TCLD1000	KT1200
VOL617A	KT1010
TCLD1000	KT1210
6N135	KPC6N135
6N136	KPC6N136
6N137	KPC6N137
6N138	KPC6N138
6N139	KPC6N139
K3021P	KMOC3021
K3022P	KMOC3022
K3023P	KMOC3023
VO3052	KMOC3052
VO3053	KMOC3053
VO3062	KMOC3062
VO3063	KMOC3063
VOM160R	KTLP160J
VO2526	KTLP3616



#### **Cross Reference**

Photo Coupler

#### **Cross Reference**

SSR-MOSFET Output

KAQW414S

KAQW414

KAQW414H

KAQW612S

KAQW612H

KAQW614

KAQW614H

KAQY210S

KAQY214S

KAQV214

KAQV216

KAQW212

KAQW214S

KAQW214

KAQW216

KAQV253

KAQY414S

KAQV414

KAQW414S

KAQW414

KAQW614S

KAQW614

KAQY212S

KAQY212

KAQY217S

KAQY210S

KAQY210

KAQY214S

KAQY214

KAQY216S

KAQV212S

KAQV212

KAQV217S

KAQV210S

KAQV210

KAQV214S

KAQV214

KAQV214H

KAQV216H

KAQW217S

KAQW210S

KAQW210

SHARP			41100	K2010	CNIV/17 1	K2010			I/DCO
	cosmo		4N26	K2010	CNY17-1	K2010	╞	EL3H7_G	KPS2801
PC123	K1010		4N27	K2010	CNY17-2	K2010		EL3H4_G	KPS2805
PC817	K1010		4N28	K2010	CNY17-3	K2010		ELT3052	KMOC3011
PC851	KP1210		4N35	K2010	CNY17-4	K2010		ELT3062	KMOC3012
PC713V	K2010		4N37	K2010	H11A1	K2010		EL3021	KMOC3021
PC714V	KP2110		CNY17-1	K2010	H11A2	K2010		EL3022	KMOC3022
PC852	KP4010		CNY17-2	K2010	H11A3	K2010		EL3023	KMOC3023
PC853	KP4010		CNY17-3	K2010	H11A4	K2010		EL3041	KMOC3041
PC725V	KP5010		CNY17-4	K2010	H11A5	K2010		EL3042	KMOC3042
PC815	KPC815		LTV-702V	K2010	MCT21	K2010		EL3043	KMOC3043
PC8171	K10101W		CNY17F-1	KP2110	TIL111	K2010	Γ	EL3051	KMOC3051
PC354N	KPC354NT	Ī	CNY17F-2	KP2110	TIL117	K2010	Γ	EL3052	KMOC3052
PC355N	KPC355NT	ľ	CNY17F-3	KP2110	CNY17F-1	KP2110		EL3053	KMOC3053
PC357N	KPC357NT	Ī	CNY17F-4	KP2110	CNY17F-2	KP2110	ſ	EL3061	KMOC3061
PC452	KPC452	ľ	LTV-702F	KP2110	CNY17F-3	KP2110	ſ	EL3062	KMOC3062
PC957L0NSZ0F	KPC6N136	ľ	LTV-814	K3010	CNY17F-4	KP2110	F	EL3063	KMOC3063
PC910L0NSZ0F	KPC6N137	ľ	LTV-852	KP4010	EL814	K3010	F	EL3081	KMOC3081
PC410L0NIP0F	KPC410	ľ	LTV-725V	KP5010	EL852	KP4010	F	EL3082	KMOC3082
PC457L0NIP0F	KPC457		LTV-733	KP6010	H11AA1	KP6010		EL3083	KMOC3083
PC3H2	KPS2801		LTV-815	KPC815	H11AA2	KP6010		ELM3022	KTLP160G
PC3H5	KPS2802		LTV-354T	KPC354NT	H11AA3	KP6010	F	ELM3052	KTLP160J
PC3H3	KPS2805		LTV-355T	KPC355NT	H11AA4	KP6010	F	ELM3042	KTLP161G
PC3ST11NSZAX	KMOC3011		LTV-352T	KPC452	4N29	KPC4N33	F	ELM3062	KTLP161J
PC3ST21NSZBX	KMOC3012	ľ	MOC3021	KMOC3021	4N30	KPC4N33	F	ELM3064	KTLP168J
PR22MA11NTZF	KMOC3022	ľ	MOC3022	KMOC3022	4N31	KPC4N33	-		I
PC2SD11NTZAF	KMOC3023	ľ	MOC3023	KMOC3023	4N32	KPC4N33		Avago	cosmo
PR32MA11NTZF	KMOC3052	ľ	MOC3052	KMOC3052	4N33	KPC4N33	ľ	HCPL-817	K1010
S2S3000F	KTLP160J		MOC3063	KMOC3063	<u> </u>	<u> </u>	F	4N25	K2010
S2S4000F	KTLP161J	ľ	MOC3083	KMOC3083	EVERLIGHT	cosmo	F	CNY17	K2010
PR26MF11NSZF	KTLP3502	L		J	H11B1	KPC4N33	F	HCPL-814	K3010
PR36MF51NSZF	KTLP3506	[	EVERLIGHT	cosmo	H11B2	KPC4N33	F	HCPL-3120	KP1510
PR3BMF51NSKF	KTLP3616		EL816	K1010	H11B3	KPC4N33	F	ACPL-T350	KTLP350
PR26MF21NSZF	KTLP3503		EL817	K1010	H11B255	KPC4N33	F	HCPL-354	KPC354NT
PR36MF21NSZF	KTLP3507	ľ	EL851	KP1210	TIL113	KPC4N33	F	HCPL-181	KPC357NT
PR3BMF21NSZF	KTLP3617	ŀ	4N25	K2010	EL815	KPC815	┢	6N135	KPC6N135
	J		4N26	K2010	EL3120	KP1510	┢	6N136	KPC6N136
LITEON	cosmo	ŀ	4N27	K2010	EL354N-G	KPC354NT	┢	6N137	KPC6N137
LTV-817	K1010	ŀ	4N28	K2010	EL357N_G	KPC357NT	┢	6N138	KPC6N138
LTV-123	K1010		4N35	K2010	EL452_G	KPC452	┢	6N139	KPC6N139
	K1010	ŀ	4N36	K2010	EL1010	KT1010	┢	HCPL-M600	KPC410
LTV-816							L		10 0110
LTV-816 LTV-851	KP1210		4N37	K2010	ELM600	KPC410		HCPL-M452	KPC457

PANASONIC	cosmo	AQW414S
AQY212S	KAQY212S	AQW414
AQY212EH	KAQY212H	AQW414EH
AQY210S	KAQY210S	AQW612S
AQY210EH	KAQY210H	AQW612EH
AQY214S	KAQY214S	AQW614
AQY214EH	KAQY214H	AQW614EH
AQY216EH	KAQY216H	
AQV212S	KAQV212S	NEC (RENESAS)
AQV212	KAQV212	PS7431-1A
AQV217S	KAQV217S	PS7241E-1A
AQV217	KAQV217	PS7341-1A
AQV210S	KAQV210S	PS7360-1A
AQV210	KAQV210	PS7122A-2A
AQV210EH	KAQV210H	PS7241-2A
AQV214S	KAQV214S	PS7141-2A
AQV214	KAQV214	PS7160-2A
AQV214EH	KAQV214H	PS7122A-1A
AQV216S	KAQV216S	PS7241E-1B
AQV216	KAQV216	PS7341-1B
AQW212S	KAQW212S	PS7241-2B
AQW212	KAQW212	PS7141-2B
AQW212EH	KAQW212H	PS7241-1C
AQW217	KAQW217	PS7141-1C
AQW210S	KAQW210S	-
AQW210	KAQW210	OMRON
AQW210 AQW210EH		OMRON G3VM-61G1
	KAQW210	-
AQW210EH	KAQW210 KAQW210H	G3VM-61G1
AQW210EH AQW214S	KAQW210 KAQW210H KAQW214S	G3VM-61G1 G3VM-61A1
AQW210EH AQW214S AQW214	KAQW210 KAQW210H KAQW214S KAQW214	G3VM-61G1 G3VM-61A1 G3VM-201G1
AQW210EH AQW214S AQW214 AQW214EH	KAQW210 KAQW210H KAQW214S KAQW214 KAQW214H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G
AQW210EH AQW214S AQW214 AQW214EH AQW216	KAQW210 KAQW210H KAQW214S KAQW214 KAQW214H KAQW216	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A
AQW210EH AQW214S AQW214 AQW214EH AQW216EH	KAQW210 KAQW210H KAQW2145 KAQW214 KAQW214 KAQW216 KAQW216H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-251G G3VM-351A G3VM-401G
AQW210EH AQW214S AQW214 AQW214EH AQW216 AQW216EH AQV253	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214H           KAQW216           KAQW216H           KAQV253	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401G G3VM-401A
AQW210EH AQW214S AQW214 AQW214EH AQW216EH AQW216EH AQV253 AQV253H	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216H           KAQV253H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401G G3VM-401A G3VM-401A
AQW210EH AQW214S AQW214 AQW214EH AQW216EH AQW216EH AQV253 AQV253H AQV254	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216H           KAQW216H           KAQW216H           KAQW216H           KAQV253           KAQV253H           KAQV254	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401G G3VM-401A G3VM-401A G3VM-601G G3VM-61H1
AQW210EH AQW214S AQW214 AQW214EH AQW216EH AQW216EH AQV253 AQV253H AQV254	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216H           KAQW216H           KAQW216H           KAQW216H           KAQV253           KAQV253H           KAQV254	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401G G3VM-401A G3VM-401A G3VM-601G G3VM-61B1
AQW210EH AQW214S AQW214 AQW214EH AQW216EH AQW253 AQV253H AQV254 AQV254H	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216H           KAQV253           KAQV253H           KAQV254           KAQV254H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401A G3VM-401A G3VM-601G G3VM-601G G3VM-61B1 G3VM-61B1
AQW210EH AQW214S AQW214C AQW214EH AQW216EH AQW216EH AQV253 AQV253H AQV254 AQV254 PANASONIC	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216H           KAQW216H           KAQW216H           KAQW216H           KAQV253           KAQV253H           KAQV254H           Cosmo	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-201G1 G3VM-351A G3VM-401G G3VM-401A G3VM-401A G3VM-601G G3VM-61H1 G3VM-61B1 G3VM-61B1 G3VM-201H1
AQW210EH AQW214S AQW214EH AQW216EH AQW253 AQV253H AQV253H AQV254H AQV254H AQV254H	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214H           KAQW216H           KAQW216H           KAQW216H           KAQV253           KAQV253H           KAQV254           KAQV254H           KAQV254           KAQV254	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401A G3VM-401A G3VM-601G G3VM-61B1 G3VM-61B1 G3VM-201H1 G3VM-251H
AQW210EH AQW214S AQW214EH AQW214EH AQW216EH AQV253 AQV253H AQV254H AQV254H PANASONIC AQY412EH	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216           KAQV253           KAQV253H           KAQV254           KAQV254H           Cosmo           KAQV4125           KAQV412H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401G G3VM-401A G3VM-601G G3VM-601G G3VM-61B1 G3VM-61B1 G3VM-201H1 G3VM-351H G3VM-351B
AQW210EH AQW214S AQW214EH AQW216EH AQW216EH AQV253 AQV253H AQV254 AQV254 AQV254 PANASONIC AQV412S AQV412EH AQV414S	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW216           KAQW216           KAQW216           KAQV253           KAQV253           KAQV254           KAQV254           KAQV4125           KAQV4127           KAQV4127           KAQV4145	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-201G1 G3VM-351A G3VM-401G G3VM-401A G3VM-401A G3VM-61H1 G3VM-61H1 G3VM-61H1 G3VM-61B1 G3VM-201H1 G3VM-351B G3VM-351B G3VM-401H
AQW210EH AQW214S AQW214EH AQW216EH AQW253 AQV253H AQV254H AQV254H AQV254H AQV254H AQV254H AQV254H AQV414S AQV412EH AQV414EH	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216H           KAQV253           KAQV253H           KAQV254           COSMO           KAQV4125           KAQV4127           KAQV4145           KAQV414H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-401A G3VM-401A G3VM-601G G3VM-61B1 G3VM-61B1 G3VM-51B1 G3VM-201H1 G3VM-351B G3VM-351B G3VM-401H G3VM-401B
AQW210EH AQW214S AQW214EH AQW214EH AQW216EH AQV253 AQV253H AQV254H AQV254H AQV254H AQV254H AQV4125 AQV4125 AQV412EH AQV414EH AQV412EH	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQV263           KAQV253           KAQV254           KAQV254           KAQV254H           Cosmo           KAQV412F           KAQV412H           KAQV412H           KAQV414H           KAQV412H	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-351A G3VM-401A G3VM-601G G3VM-601G G3VM-61B1 G3VM-61B1 G3VM-61B1 G3VM-201H1 G3VM-351B G3VM-351B G3VM-401H G3VM-401BY G3VM-401BY
AQW210EH AQW214S AQW214EH AQW214EH AQW216EH AQW253 AQV253H AQV253H AQV254H AQV254H AQV254H AQV254H AQV412E AQV412EH AQV412EH AQV412EH AQV412EH AQV414EH	KAQW210           KAQW210H           KAQW214S           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW214           KAQW216           KAQW216           KAQW216           KAQW216           KAQW216           KAQW216           KAQW216           KAQV253           KAQV254           KAQV254           KAQV254           KAQV254           KAQV4125           KAQV4124           KAQV4124           KAQV4124           KAQV4124           KAQV4124	G3VM-61G1 G3VM-61A1 G3VM-201G1 G3VM-351G G3VM-351A G3VM-351A G3VM-401A G3VM-401A G3VM-601G G3VM-601G G3VM-601G G3VM-601B G3VM-201H1 G3VM-351B G3VM-351B G3VM-401B G3VM-401B G3VM-401BY G3VM-601BY

G3VM-402J	KAQV
G3VM-402C	KAQV
G3VM-353G	KAQY
G3VM-353A	KAQ
G3VM-353H	KAQ\
G3VM-353B	KAQ
G3VM-354J	KAQV
G3VM-354C	KAQ
G3VM-355J	KAQV
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OKITA	cos
AB37S	KAQY
AB34S	KAQY
AB31S	KAQY
AB31	KAQ'
AB30S	KAQY
AB30	KAQ'
AA37	KAQ
AA34	KAQ
AA31	KAQ
AA30	KAQ
AA38	KAQ
AC37	KAQ
AC34	KAQ\
AC31S	KAQV
AC31	KAQ
AC30S	KAQV
AC30	KAQ
AC38	KAQ\
AG74S	KAQY
AG74	KAQ
AE74	KAQ
AH74S	KAQV
AH74	KAQ
AK74S	KAQV
AK74	KAQ
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CP Clare	cos
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CPC1030N	KAQY

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KAQY212S	
KAQY210S	
KAQY210H	
KAQY214S	
KAQY214H	
KAQY216H	
KAQV213	

TLP206GA

KAQW214S

CPC1330

CPC1025N

CPC1390

CPC1394

LCA126

LCA100	KAQV210
PLA110	KAQV214
PLA190	KAQV214H
PLA193	KAQV216H
CPC2014N	KAQW212S
LAA126	KAQW213
CPC2030N	KAQW210S
LAA110	KAQW210
CPC2025N	KAQW214S
PAA110	KAQW214
CPC1017N	KCP1017
CPC1008N	KCP1008
XCB170	KAQV414
PLB190	KAQV414H
CPC2125N	KAQW414S
XBB170	KAQW414
XBA170	KAQW614
TOSHIBA	cosmo
TLP176A	KAQY212S
TLP222A	KAQY212
TLP220A	KAQY212H
TLP176D	KAQY217S
TLP220D	KAQY217H
TLP176G	KAQY210S
TLP224G	KAQY210
TLP220G	KAQY210H
TLP176GA	KAQY214S
TLP176GA TLP224GA	KAQY214S KAQY214
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TLP224GA TLP220GA TLP220J TLP197A TLP592A	KAQY214 KAQY214H KAQY216H KAQV212S KAQV212
TLP224GA TLP220GA TLP220J TLP197A TLP592A TLP197D	KAQY214           KAQY214H           KAQY216H           KAQV212S           KAQV212           KAQV212           KAQV217S
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G	KAQY214 KAQY214H KAQV2126H KAQV2125 KAQV212 KAQV2175 KAQV2105
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP597G	KAQY214           KAQY214H           KAQY216H           KAQV212S           KAQV212           KAQV217S           KAQV210S           KAQV210
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP597G           TLP197GA	KAQY214           KAQY214H           KAQY216H           KAQV212S           KAQV212           KAQV212           KAQV212           KAQV210           KAQV210           KAQV214S
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP597G           TLP597GA	KAQY214           KAQY214H           KAQV212S           KAQV212S           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV210           KAQV210           KAQV214
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP197GA           TLP597GA           TLP597GA	KAQY214           KAQY214H           KAQV212G           KAQV212S           KAQV212           KAQV212           KAQV212           KAQV212           KAQV210S           KAQV210S           KAQV210           KAQV210           KAQV214           KAQV214H
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP197GA           TLP597GA           TLP797J	KAQY214           KAQY214H           KAQY216H           KAQV212S           KAQV212           KAQV212           KAQV212           KAQV210           KAQV210           KAQV214S           KAQV214           KAQV214H
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP597G           TLP597GA           TLP797GA           TLP797J           TLP797J	KAQY214           KAQY214H           KAQV212S           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV212           KAQV210           KAQV210           KAQV214           KAQV214           KAQV214H           KAQV216H           KAQV212S
TLP224GA           TLP220GA           TLP220J           TLP197A           TLP592A           TLP197D           TLP197G           TLP197GA           TLP597GA           TLP797J           TLP797J           TLP206A           TLP206A           TLP2204-2	KAQY214           KAQY214H           KAQV212G           KAQV212S           KAQV212           KAQV212           KAQV212           KAQV210           KAQV210S           KAQV210           KAQV214           KAQV214           KAQV214H           KAQV214H           KAQV215           KAQV214H           KAQV215           KAQV212S

TLP224GA-2	KAQW214
TLP798GA	KAQV254
TLP4172G	KAQY414S
TLP4222G	KAQY414
TLP4192G	KAQV414S
TLP4592G	KAQV414
TLP4202G	KAQW414S
TLP4222G-2	KAQW414
TLP4027G	KAQW614S
TLP4007G	KAQW614

AVAGO	cosmo
ASSR-1219-001E	KAQV212
ASSR-3211-001E	KAQV213
ASSR-4119-001E	KAQV214
ASSR-1228-002E	KAQW212
ASSR-3220-002E	KAQW213
ASSR-4128-002E	KAQW214

Vishay	cosmo
LH1546	KAQY210
LH1546AD	KAQY210H
LH1530AT	KAQV210H
LH1532FP	KAQW210S
LH1531AB	KAQW210H
LH1501BT	KAQV414
LH1521AB	KAQW414H

International Rectifier	cosmo
PVT312	KAQV213
PVA3354N	KAQV210H
PVT412	KAQV214H
PVT322A	KAQW213
PVR3301N	KAQW210H
PVT422P	KAQW214S
PVT422	KAQW214H



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- c. Audio / Video
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- d. Nuclear power control
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