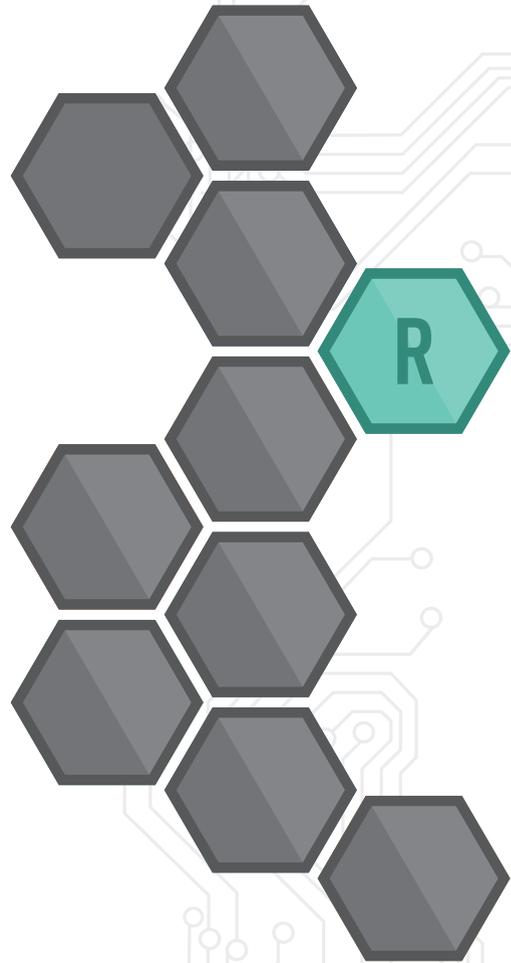


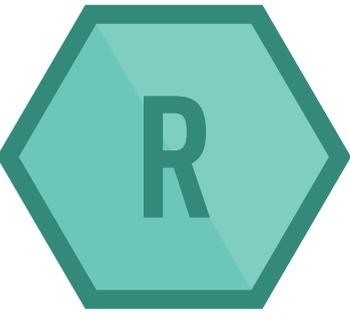
# Panasonic

## Relays

# Line Card Catalog



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# RELAYS

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Power

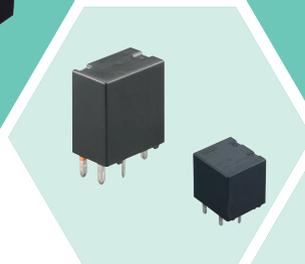
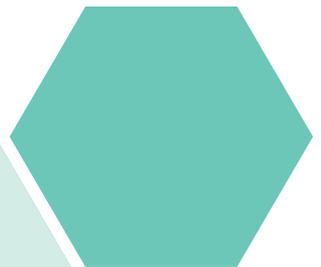
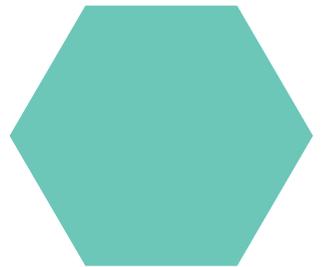
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Solid State

Automotive

Microwave Devices

Signal



	Series	Contact Arrangement	Nominal Switching Capacity (A)	Max. Switching Voltage (V)	Latching: Single Side Stable (S)	Nominal Operating Power (mW)
General Purpose Power Relays	AHN	1a, 1c, 2c	10A 30VDC/250VAC (1c)	250VAC, 30VDC	S	0.53W, 0.9VA
			5A 30VDC/250VAC (2c)			
			16A 30VDC/250VAC (1a)			
	HC	1c, 2c, 3c, 4c, 4c twin	10A 250VAC (1c)	250VAC	S	AC (50Hz): 1.3VA, AC (60Hz): 1.2VA
			7A 250VAC (2c, 3c)			DC: 0.9 to 1.1W
			5A 250VAC (4c)			
			3A 250VAC (4c twin)			
	HJ	2c, 4c	7A 250VAC (2c)	250VAC, 125VDC	S	0.9W, 1.2VA
			5A 250VAC (4c)			
	HK	1c, 2c	15A 125VAC (1c)	250VAC, 125VDC	S	AC: (50Hz) 1.3VA, (60Hz) 1.2VA
10A 125VAC (2c)			DC: 0.9 to 1W			
HL	1c, 2c	10A 125/250VAC (1c, 2c)	250VAC	S	AC: (50Hz) 1.3VA, (60Hz) 1.2VA	
		15A 125VAC (1c)			DC: 0.9 to 1W	
Safety Power Relays	SFS	2a2b, 3a1b, 4a2b, 5a1b, 3a3b	6A 250VAC/125VDC	250VAC, 125VDC	S	360 (2a2b, 3a1b) 500 (4a2b, 5a1b, 3a3b)
	SFY	2A2B, 3A1B, 4A2B, 5A1B	6A 250VAC, 6A 30VDC	250VAC, 30VDC	S	670
NON-Polarized Power Relays	ALA	2a	3A 125VAC, 5A 277VAC	125VAC, 277VAC	S	530
	ALDP	1a	5A 277vac	277VAC	S	200mW
	ALE	1a	16A 277VAC	277VAC	S	200 (std), 400 (high sensitivity)
	ALF	1a	20A 250VAC	250VAC	S	900
	ALFG	1a	22A 250VAC (Standard)	250VAC	S	1400mW
			31A 250VAC (1.5mm contact gap High capacity type)			
			33A 250VAC (1.8mm contact gap High capacity type)			
	ALZ	1a, 1c	16A 250VAC	440VAC	S	400
	HE	1a, 2a	30A 277VAC (1a)	30VDC, 277VAC	S	1.92W (DC coil),
			25A 277VAC (2a)			1.7 to 2.7VA (AC coil)
HE-PV	1a, 1a (high capacity)	35A 250VAC (1a)	250VAC	S	1920	
		48A 250VAC (1a high capacity)				
JM	1a	20A 250VAC	250VAC	S	900	

	Series	Contact Arrangement	Nominal Switching Capacity (A)	Max. Switching Voltage (V)	Latching: Single Side Stable (S)	Nominal Operating Power (mW)
NON-Polarized Power Relays	JQ	1a, 1a (high capacity), 1c, 1c (high capacity)	1a standard: 2A 250VAC, 5A 30VDC/125VAC	250VAC, 110VDC (0.3A)	S	200 (1a, 1a high capacity)
			1c standard NO: 2A 250VAC, 3A 30VAC, 5A 125VAC			400 (1c, 1c high capacity)
			1c standard NC: 1A 30VDC, 1A 250VAC, 2A 125VAC			
			1a high capacity: 5A 30VDC/250VAC, 10A 125VAC			
			1c high capacity NO: 5A 30VAC/250VAC, 10A 125VAC			
			1c high capacity NC: 1A 30VDC, 2A 250VAC, 3A 125VAC			
	JS	1a, 1c, 1a (long life)	1a, 1c: 5A 30VDC, 6A 277VAC, 10A 125VAC, 10A 250VAC (NO)	250VAC, 100VDC (0.5A)	S	360
			1a (long life): 10A 250/277VAC, 5A 30VDC			
	JTN	1a, 1c	20A 277VAC (1a, 1c NO)	277VAC	S	800
			10A 277VAC (1c NC)			
	JTV	1a, 1c	20A 277VAC (1a, 1c NO)	277VAC	S	1000
			10A 277VAC (1c NC)			
	JVN	1a	10A 30VDC, 125/277VAC	30VDC, 277VAC	S	200 (4.5 to 48VDC)
			16A 125VAC			600 (100VDC)
	JW	1a, 1c, 2a, 2c	5A 30VDC/250VAC (1a, 1c, 2a, 2c)	250VAC, 30VDC	S	530
			10A 250VAC/30VDC (1a, 1c)			
LFG	1a	31A 250VAC	250 VAC	S	1400	
LKP	1a	10A 277VAC, 5A 30VDC	30VDC, 277VAC	S	530	
LQ	1a, 1c	1a: 5A 250VAC, 5A 30VDC	250 VAC	S	200mW (1a)	
		1c: 5A 250VAC (NO), 5A 30VDC (NO), 2A 250VAC (NC), 1A 30VDC (NC)			400mW (1c)	
NC	2c, 4c	5A 250VAC	250VAC	S	2c DC: 360mW (740mw: 100 VDC)	
					2c AC: 0.5 to 1.05 VA	
					4c DC: 720mW (740mW:100 VDC)	
					4c AC: 1.08 to 1.3VA	
PA	1a	5A 250VAC/30VDC	110VDC, 250VAC	S	120 mW (5 to 18 VDC)	
PF	1a, 1c	6A 250VAC	250VAC	S	170 mW (5-24 VDC)	
					217 mW (48 V DC)	
					175 mW (60 V DC)	
PQ	1a	5A 250VAC/30VDC	110VDC (0.3A), 250VAC	S	200	

	Series	Contact Arrangement	Nominal Switching Capacity (A)	Max. Switching Voltage (V)	Latching: Single Side Stable (S), 1 coil latching (L1), 2 coil latching (L2)	Nominal Operating Power (mW)
Polarized Power Relays	ADJ	1a, 1b, 1c, 1a1b, 2a, 2b, 2c	16A 250VAC (1a, 1b, 1c)	250 VAC	S, L1, L2	150 (L1), 250 (S, L2)
			10A 250VAC (1a1b, 2a, 2b 2c)			
	ADQ	1a	30A 250VAC	250 VAC	L1, L2	500 (L1), 1000(L2)
	ADY	1a, 1a1b	10A 250VAC/30VDC (1a)	380 VAC, 125 VDC	S, L2	200
			8A 250VAC/30VDC (1a1b)			
	DE	1a, 1a1b, 2a	10A 250VAC/30VDC (1a)	250 VAC, 30 VDC	S, L2	200
			8A 250VAC/30VDC (1a1b, 2a)			
	DK	1a, 1a1b, 2a	10A 250VAC/30VDC (1a)	250 VAC, 125 VDC	S, L2	200
			8A 250VAC/30VDC (1a1b, 2a)			
	DQM	1a	60A 250VAC	250 VAC	L1, L2	500 (L1), 1000 (L2)
	DSP	1a, 1a1b, 2a	8A 250VAC (1a)	380 VAC, 125 VDC	S, L2	300
			5A 250VAC/30VDC (1a, 1a1b, 2a)			
	DW	1a	8A 250VAC(standard type) 16A 277VAC( Inrush type)	8A 250VAC(standard type) 16A 277VAC(Inrush type)	L1, L2	200 (L1) 400 (L2)
S	2a2b, 3a1b, 4a	4A 250VAC, 3A 30VDC	250 VAC, 48 VDC (30-48 VDC at less than 0.5 A)	S, L2	200	
SP	2c, 4c	15A 250VAC (2c)	250 VAC, 30 VDC (48V DC: Max. 2A)	S, L2	300	
		10A 250VAC (4c)				
ST	1a1b, 2a	8A 250 VAC	380 VAC, 250 VDC	S, L2	240	
High Capacity DC Power Relays	AEJ	1a	100A 100VDC	100 A, 100 VDC	S	5W
	ADZ	1a	120A 250 VAC	276 VAC	L1, L2	1400mw (L1) 2800mw (L2)
	AEP	1a (Molybdenum), 1a (tungsten, copper alloy), 1a (copper alloy)	10A 400VDC (Molybdenum)	10 A, 400 VDC	S	Max 1.4W
			80A 400VDC (Tungsten, Copper alloy)	8 A, 400 VDC	S	Max 4.5W
			200A 400VDC (Lead Wire type)	200A 400VDC	S	Max 4 to 6W
300A 400VDC (Copper alloy)			300 A, 400 VDC	S	Max 4 to 40W	
HEV	2a	20A 800VDC (400VDC at each 1 form A contact)	1000 VDC	S	1920	

Load	Output	PKG	Load Voltage												
			20V	25V/30V	40V	80V	100V	200V	250V	350V	400V	600V	1000V	1500V	
0.11 - 0.2 A	1a	SOP4									AQY214S AQY234S				
	1a	DIP4										AQY216EH			
	1a	SOP6						AQV227NS			AQV214S AQV224NS	AQV216S			
	1a	DIP6			AQV221	AQV225		AQV227N			AQV224N	AQV216	AQV259	AQV258	
	1a1b	SOP8									AQW610S				
	1a1b	DIP8										AQW614EH AQW614			
	1b	SOP4										AQY414S			
	1b	SOP6										AQV414S			
	1b	DIP6										AQV414			
	2a	SOP8							AQW227NS		AQW210S	AQW214S AQW224N			
	2a	DIP8							AQW227N		AQW210HL	AQW214EH AQW214	AQW216EH AQW216		
	2b	SOP8										AQW414S			
	2b	DIP8										AQW414EH AQW414			
	4a	SOP16			AQS221FN2S AQS221N2S	AQS225R2S									
	1a	VSSOP		AQY221N3T											
	1a	VSSOP			AQY221N2T										
	1a	SSOP						AQY225R3V							
	1a	VSSOP	AQY221N5T												
		SSOP	AQY221N5V												
	1a	SON		AQY221N3M	AQY221N2M										
	1a	SSOP		AQY221N3V	AQY221FN2V AQY221N2V	AQY225R2V									
	1a	SOP4			AQY221N2S	AQY225R2S					AQY210KS AQY210LS AQY210S	AQY230S			
	1a	DIP4									AQY210EH	AQY214EH			
	1a	SOP6							AQV217S		AQV210S				
	1a	DIP6							AQV217	AQV253 AQV253H AQV203	AQV210E AQV210EH AQV210	AQV214E AQV214EH AQV214 AQV214H AQV254 AQV254H AQV104 AQV204 AQV234			
	1a1b	DIP8										AQW610EH	AQW654		
	1b	SOP4										AQY410S			
	1b	DIP4										AQY410EH	AQY414EH		
	1b	DIP6								AQV453	AQV410EH	AQV414E AQV414EH AQV454 AQV454H			
	2a	SOP8									AQW223R2S				
2a	DIP8							AQW217		AQW210EH AQW210	AQW254				
2b	DIP8										AQW454				
4a	SOP16			AQS221FR2S AQS221R2S											

Load	Output	Packaging	Load Voltage											
			25V/30V	40V	50V	60V	80V	100V	200V	250V	400V			
0.21-0.5A	1a	VSSOP		AQY221R2T										
	1a	VSSOP				AQY222R2T								
	1a	VSSOP		AQY221R2T										
	1a	SON		AQY221R2M										
	1a	SSOP		AQY221FR2V AQY221R2V AQY221R4V										
	1a	SOP4		AQY221R2S		AQY212S AQY232S AQY222R1S	AQY225R1S							
	1a	SOP6				AQV212S		AQV215S						
	1a	DIP6		AQV251 AQV201		AQV112KL AQV252 AQV202		AQV215 AQV255	AQV257	AQV103				
	1a	Power-DIP4												AQY274
	1a	SIL4												AQZ204 AQZ204D
	1b	SOP4					AQY412S							
	1b	SIL4												AQZ404
	1a1b	SOP8					AQW612S							
	1a1b	DIP8					AQW612EH							
	2a	SOP8					AQW212S							
	2a	DIP8					AQW212EH AQW212		AQW215					
0.51-1A	1a	VSSOP	AQY221R6T											
	1a	SSOP	AQY221R6V											
	1a	SOP4				AQY212G5								
	1a	DIP4	AQY211EH			AQY212EH								
	1a	Power-DIP4							AQY277					
	1a	DIP6		AQV101		AQV212 AQV102								
	1a	SIL4							AQZ207 AQZ207D				AQZ104 AQZ104D AQZ264	
	1b	DIP4				AQY412EH								
	1b	DIP6				AQV412EH								
1.1-2A	1a	SOP		AQY211G2S										
	1a	SOP4				AQY212G2S								
	1a	DIP4				AQY212GH								
	1a	SOP6					AQV255G5							
	1a	Power-DIP4				AQY272		AQY275						
	1a	SIL4						AQZ205 AQZ205D	AQZ107 AQZ107D					
2.1-4A	1a	SOP			AQV252G2S									
	1a	DIP6	AQV251G			AQV252G								
	1a	SIL4				AQZ102 (DC) AQZ102D (DC) AQZ202 AQZ202D		AQZ105 AQZ105D						
4.1-10A	1a	SIL4							AQZ197					
	1a	SIL4				AQZ192 (DC) AQZ262								

	Series	Installation Method & Shape	Load Current	Load Voltage	Non-repetitive surge current	Breakdown Voltage
Through-hole & SMD	AQAD	Screw mounting, hockey puck type	30A	100VDC	90A	4,000 Vrms between input and output 2500 Vrms between input and output case
			10A	600VDC	20A	
	AQ-C	PC board terminal, DIL	1A	3 to 60VDC	1.5A	2500VAC
			1A	75 to 125/250VAC	20A	
			25mA	4 to 32VDC	-	
	AQ-F	Plug in terminal	2A & 3A	75 to 250 VAC	80A	2000VAC
			2A & 3A	3 to 60 VDC	5A & 6A	2500VAC
	AQ-G	PC board terminal, SIL	1A	75 to 264VAC	8A	3000VAC
			2A	75 to 264VAC	30A	
	AQ-H	PC board terminal, DIP8	0.3A		3A	5000VAC
			0.6A		6A	
			0.9A		9A	
			1.2A		12A	
	AQ1	PC board terminal, SIL	1A	10 to 200VDC	5A (1sec.)	3000VAC
			2A	3 to 60VDC	5A (1sec.)	
			3A	75 to 250VAC	80A	4000VAC (between input & output) 2500VAC (between input, output & case)
10A (Heat sink)			75 to 250VAC	100A		
AQ8	PC board terminal, SIL	2A	75 to 125/250VAC	30A	3000VAC	
		3A	75 to 125/250VAC	80A		
Phototriac Coupler	APT	PC board terminal, SOP & DIP	0.05A	-	0.6A	3750VAC
			0.1A		1.2A	5000VAC
High Capacity	AQ-A	Screw mounting, hockey puck type	30A	4 to 32 VDC	90A	4000VAC (between input & output) 2500VAC (between input, output & case)
			15A	75 to 250 VAC	150A	
			25A	75 to 250 VAC	250A	
			40A	75 to 250 VAC	400A	
	AQ-J	DIN rail mounting, hockey puck type	10A	75 to 264VAC	100A	3000 Vrms (between input & output) 2500 Vrms (between input, output & case)
			20A	75 to 264VAC	250A	
			15A	75 to 264VAC	100A	
	AQ-J	Screw mounting, hockey puck type (tab terminal)	10A	75 to 264VAC	100A	3000 Vrms (between input & output) 2500 Vrms (between input, output & case)
			15A	75 to 264VAC	150A	
			25A	75 to 264VAC	250A	

	Series	Contact Arrangement	Nominal Switching Capacity (A) (Resistive Loads)	Max. Switching Voltage (V)	Nominal Operating Power (mW)
Automotive	CA	1a	20/30A 12VDC	15VDC, 16VDC, 30VDC	1.4W, 1.8W
		1b	20A 12VDC		
		1c	20A 12VDC		
	CB	1a (high capacity)	70A 14VDC	16VDC (12V TYPE)	1.4W, 1.8W
		1a	40A 14VDC	32VDC (24V TYPE)	
		1c N.O.	40A 14VDC		
		1c N.C.	30A 14VDC		
	CJ	1c	20A 14VDC (N.O.)	14VDC	640/800mW
		1cx2	10A 14VDC (N.C.)		
	CM	1a	35A 14VDC (N.O.)	16VDC	1.5/1.8W
		1c	20A 14VDC (N.C.)		
	CN-H	1a	30A 14VDC	16VDC	450/640mW
	CN-M	1a	30A 14VDC (N.O.)	16VDC	640mW
		1c	15A 14VDC (N.C.)		
	CP	1a	20A 14VDC (N.O.)	-	640mW
		1c	10A 14VDC (N.C.)		
	CP-Power	1a	20A 14VDC	-	450/640mW
		1c	10A 14VDC		
	CQ	1c	20A 14VDC (N.O.)	-	640mW
			10A 14VDC (N.C.)		
	CT	1c	20A 14VDC (N.O.)	-	800mW
		1cx2	10A 14VDC (N.C.)		
	CT-Power	1c	30A 14VDC(N.O.)	-	1000mW
		1cx2	10A 14VDC (N.C.)		
	CV	1a	20A 14VDC (N.O.)	14VDC	800mW
		1c	10A 14VDC (N.C.)		
	CW	2a	120A (5sec @20C)	100VDC	1.4W
70A (1min @85C)			16VDC		
45A (continued @85C)					
JJ-M	1a	20A 14VDC (N.O.)	14VDC	640mW	
	1c	10A 14VDC (N.C.)			
AJJM	Double make contact	12A 14VDC	-	1000mW	
		6A 1contact			
JS-M	1a	10A 16VDC	16VDC	640mW	
	1c	15A 16VDC			
AEB	1a	100A 42VDC	42VDC	5W	
AEV	1a	10A 400VDC	400VDC	1.4W	
		20A 400VDC		3.9W	
		80A 400VDC		4.5W	
		120A 400VDC		4.2W	
		300A 400VDC		37.9W (0.1sec inrush) 3.6W stable / 44.4(0.1sec inrush) 3.8W stable	
AEV (Quiet)	1a	60A 12VDC		4.5W	

	Series	Contact Arrangement	Nominal Switching Capacity (A) (Resistive Loads)	Max. Switching Voltage (V)	Nominal Operating Power (mW)
Automotive	TA	1c	N.O.: 20A N.C.: 10A	12 VDC	640mW 900mW
	TB	1a 1c 1c x 2	N.O.: 20A N.C.: 10A	12 VDC	640mW 900mW 1,440mW
	TC	1a 1c Double make contact 2a	N.O.: 30A N.C.: 15A	12 VDC	640mW 900mW 1,309mW
	TE	1c 1c x 2 (10 pin)	N.O.: 20A N.C.: 10A	12 VDC	640mW 900mW 1,309mW
	TG	1a 1c	N.O.: 30A N.C.: 15A	12 VDC	450mW 640mW
	TH	1c 1c x 2 (10 pin)	N.O.: 20A N.C.: 10A	12 VDC	655mW 900mW
	TJ	1c	N.O.: 30A N.C.: 15A	12 VDC	450mW

	Series	Contact Arrangement	Maximum Switching Voltage	Frequency Range	Contact Input Power	Latching: Single Side Stable (S), 1 Coil Latching (L1), 2 Coil Latching (L2)	Nominal Operating Power (mW)	
Microwave Devices	High Frequency Relays	ARA	30VDC	16GHz	3W @ 16GHz	S, L1, L2	S: 140mW (1.5 to 12V), 200mW (24V) 300mW (48V)  L1: 70mW (1.5 to 12V), 100mW (24V)  L2: 140mW (1.5 to 12V), 200mW (24V)	
		ARE	30VDC	2.6GHz	10W @ 2.6GHz	S	200	
		ARJ	30VDC	8GHz	1W @ 56GHz	S, L2	200mW (S), 150mW (L2)	
	Coaxial Switches	ARN	SPDT		1 GHz to 6 GHz	80W at 26GHz	S, L2	320mW (S), 400mW (L2)
		ARS	1c	30VDC	36GHz	10W @ 36GHz	S, L1, L2	200mW (S, L1), 400mW (L2)
		ARD	SPDT, Transfer, SP6T	30VDC 100mA (indicator)	6 to 26.5GHz	120W @ 36GHz	S	840mW (SPDT/SP6T, Fail-safe, with indicator)  1540mW (Transfer, Fail-safe with indicator)
		ARV	SPDT		4 to 18GHz (PIN)  8 to 26.5GHz (SMA)	Max 50W @ 36GHz	S	700mW

	Series	Contact Arrangement	Nominal Switching Capacity (A)	Max. Switching Voltage (V)	Latching: Single Side Stable (S), 1 coil latching (L1), 2 coil latching (L2)	Nominal Operating Power
Signal	AGN	2c	1A 30 VDC, 0.3 A 125 VAC	110 VDC, 125 VAC	S, L1, S (high sensitivity)	L1 and S (high sensitivity type): 100mW (1.5 to 12VDC), 120mW (24VDC) S: 140mW (1.5 to 12VDC), 230mW (24VDC)
	AGQ	2c	1 A 30 VDC, 0.3 A 125 VAC	110 VDC, 125 VAC	S, L1, S (high sensitivity)	L1 and S (high sensitivity type): 100mW (1.5 to 12VDC), 120mW (24VDC) S: 140mW (1.5 to 12VDC), 230mW (24VDC)
	DS	1c, 2c	2 A 30 VDC	220 VDC, 250 VAC	S, L2	S: 200mW (standard), 400mW (high sensitivity) L2: 180mW (standard), 360mW (high sensitivity)
	TQ	2c, 2d (M.B.B.), 4c	1 A 30 VDC, 0.5A 125 VAC	110 VDC, 125 VAC	S, L1, L2	S 2c: 140mW (3 to 12VDC), 200mW (24VDC), 300mW (48VDC) S 2d M.B.B.: 200mW S 4c: 280mW (3 to 24VDC), 400mW (48VDC) L1 (2c, 2d M.B.B.): 100mW (3 to 12VDC), 150mW (24VDC) L1 4c: 200mW L2 (2c, 2d M.B.B.): 200mW (3 to 12VDC), 300mW (24VDC) L2 4c: 400mW
	TQ-SMD	2c	2A 30 VDC, 0.5A 125 VAC	220 VDC, 125 VAC	S, L1, L2	S: 140, 200, 300mW L1: 70, 100mW L2: 140, 200mW
	TX	2c	2A 30 VDC, 1A 30 VDC	220 VDC	S, L1, L2	S: 140 mW (1.5 to 24 V DC), 270 mW (48 V DC) L1: 100 mW (1.5 to 24 V DC) L2: 200 mW (1.5 to 24 V DC)
	TX-D	2c, 2d (M.B.B.)	2A 30 VDC (2c) 1A 30 VDC (2d M.B.B.)	220 VDC (2c) 110 VDC (2d M.B.B.)	S, L1	2c S: 200mW (1.5 to 12VDC), 230mW (24VDC) 2c L1: 150mW (1.5 to 12VDC), 170mW (24VDC) 2d M.B.B. S: 250mW (1.5 to 12VDC), 270mW (24VDC)
	TX-S	2c	1A 30 VDC	110 VDC	S, L1, L2	S: 50 mW (1.5 to 12 V DC), 70 mW (24 V DC) L1: 35 mW (1.5 to 12 V DC), 50 mW (24 V DC) L2: 70 mW (1.5 to 12 V DC), 150 mW (24 V DC)
	TX (TH type)	2c	2A 30 VDC, 0.5A 125 VAC	220 VDC, 250 VAC	S, L1, L2	S: 140 mW (1.5 to 24 V DC), 270 mW (48 V DC) L1: 100 mW (1.5 to 24 V DC) L2: 140 mW (1.5 to 24 V DC)
	DS2Y	2c	2A 30 VDC	220VDC 250 VAC	S	S: 200 mW (1.5 to 24 VDC), 300 mW (48 VDC)

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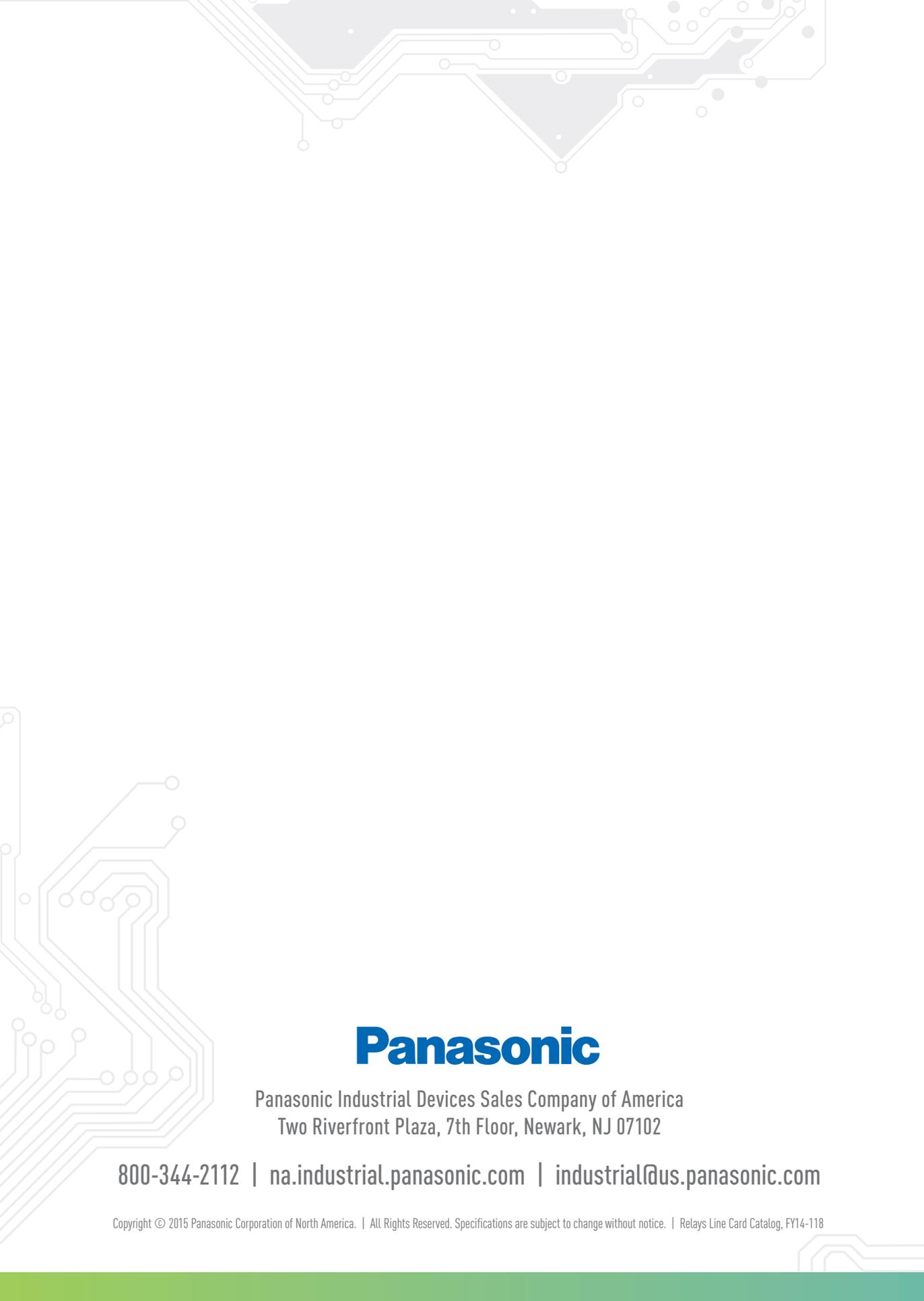
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