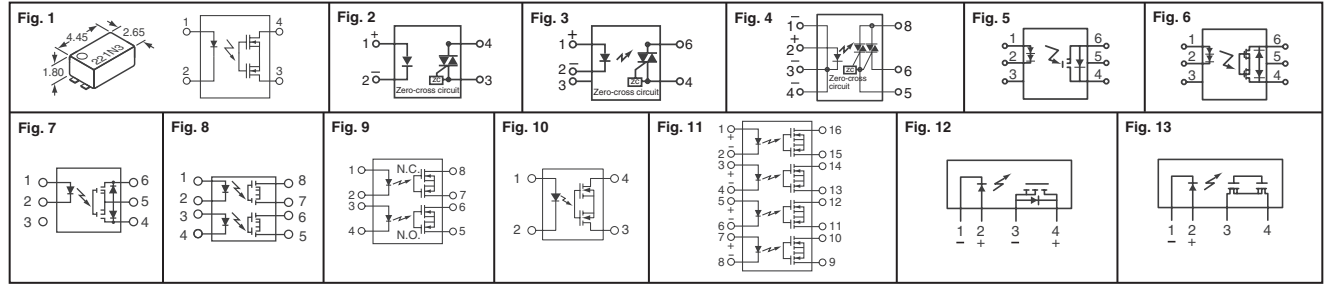


Panasonic Electric Works

**Features:**  
 • PhotoMOS relays combine the advantages of standard electromechanical relays with that of solid state products • Very fast response times with very low leakage and exceedingly long life times • Reliability and lower input currents are also improved over conventional relays

Dim. in mm



## Package (Board Layout)

Dim. in mm

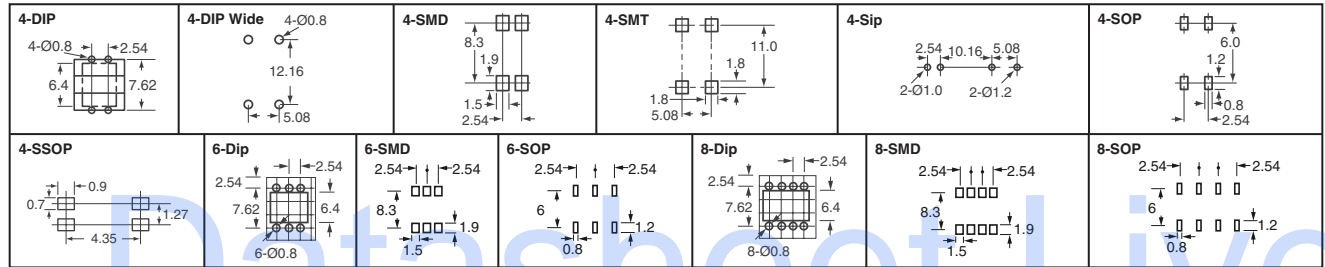


Fig.	Contact Arrangement	Load Current (max.)	Load Voltage (max.)	Isolation Voltage	On Resistance (Ω) (min./max.)	Features	Package	Digi-Key Part No.	1	Price Each	25	50	100	Panasonic Part No.		
<b>AQY Ultra Mini PhotoMOS Relays</b>																
1	SPST-NO	500mA	60V	1,500	0.83/2.5	Economy Version	4-SOP	255-1981-ND	4.90	4.50	4.00	3.40		AQY212S		
		120mA	40V	1,500	9.8/12.5	Low CXR	4-SOP	255-2147-2-ND† <b>NEW!</b>	6.32	5.81	5.16	4.39		AQY221N1SZ		
		120mA	40V	1,500	9.5/12.5	Low CXR	4-SOP	255-2148-2-ND† <b>NEW!</b>						AQY221N2SX		
		120mA	40V	1,500	9.5/12.5	Low CXR	4-SOP	255-2149-2-ND† <b>NEW!</b>						AQY221N2SX		
		120mA	40V	1,500	9.5/12.5	—	—	4-SSOP	255-1794-5-ND	6.44	5.92	5.26	4.48		AQY221N2V	
		120mA	40V	1,500	9.5/12.5	Low CXR	4-SOP	255-1794-2-ND† <b>NEW!</b>						AQY221N2VY		
		150mA	25V	1,500	5.5/7.5	—	—	4-SSOP	255-1982-ND	6.39	5.88	5.22	4.44		AQY221N3V	
		150mA	25V	1,500	5.5/7.5	—	—	4-SOP	255-1982-2-ND† <b>NEW!</b>						AQY221N3VY	
		250mA	40V	500	0.8/1.25	—	—	4-SOP	255-2150-5-ND <b>NEW!</b>	6.15	5.65	5.02	4.27		AQY221R2S	
		250mA	40V	500	0.8/1.25	—	—	4-SOP	255-2151-2-ND† <b>NEW!</b>						AQY221R2SX	
<b>APT Series Phototriacs Couplers</b>																
2	SPST-NO	100mA	600V	5,000	—	Zero-Cross	4-Dip	255-1516-5-ND	1.10	1.02	.90	.77		APT1211		
		100mA	600V	5,000	—	Zero-Cross	4-SMD	255-1517-5-ND	1.10	1.02	.90	.77		APT1211A		
		50mA	600V	3,750	—	Zero-Cross	4-SOP	255-1518-5-ND	1.42	1.31	1.16	.99		APT1211S		
3	SPST-NO	100mA	600V	5,000	—	Zero-Cross	6-Dip	255-1519-5-ND	1.20	1.11	.98	.84		APT1212		
		100mA	600V	5,000	—	Zero-Cross	6-SMD	255-1520-5-ND	1.20	1.11	.98	.84		APT1212A		
2	SPST-NO	100mA	600V	5,000	—	Non Zero-Cross	4-Dip	255-1521-5-ND	1.05	.97	.86	.74		APT1221		
		100mA	600V	5,000	—	Non Zero-Cross	4-SMD	255-1522-5-ND	1.05	.97	.86	.74		APT1221A		
		50mA	600V	3,750	—	Non Zero-Cross	4-SOP	255-1523-5-ND	1.23	1.13	1.00	.85		APT1221S		
3	SPST-NO	100mA	600V	5,000	—	Non Zero-Cross	6-Dip	255-1524-5-ND	1.25	1.15	1.02	.87		APT1222		
		100mA	600V	5,000	—	Non Zero-Cross	6-SMD	255-1525-5-ND	1.25	1.15	1.02	.87		APT1222A		
<b>AQH Series Solid State Relays</b>																
4	SPST-NO	600mA	600V	5,000	—	Zero-Cross	8-Dip	255-1526-5-ND	1.59	1.47	1.30	1.11		AQH1223		
		600mA	600V	5,000	—	Zero-Cross	8-SMD	255-1527-5-ND	1.59	1.47	1.30	1.11		AQH1223A		
		600mA	600V	5,000	—	Non Zero-Cross	8-Dip	255-1528-5-ND	1.72	1.58	1.40	1.19		AQH1223S		
		600mA	600V	5,000	—	Non Zero-Cross	8-SMD	255-1529-5-ND	1.72	1.58	1.40	1.19		AQH1223A		
		900mA	600V	5,000	—	Zero-Cross	8-Dip	255-1530-5-ND	1.67	1.53	1.36	1.16		AQH223S		
		900mA	600V	5,000	—	Zero-Cross	8-SMD	255-1531-5-ND	1.67	1.53	1.36	1.16		AQH223A		
		900mA	600V	5,000	—	Non Zero-Cross	8-Dip	255-1532-5-ND	1.84	1.69	1.50	1.28		AQH2223S		
		900mA	600V	5,000	—	Non Zero-Cross	8-SMD	255-1533-5-ND	1.84	1.69	1.50	1.28		AQH2223A		
		<b>NEW! AQG Series Solid State Relays NEW!</b>														
		13	SPST-NO	2000mA	264V	1,500	—	Zero-Cross	4-Sip	255-2102-5-ND	6.15	5.65	5.02	4.27		AQG22105
<b>AQY Series PhotoMOS Relays</b>																
5	SPST-NO	700mA	40V	1,500	0.3/0.5	—	6-Dip	255-1546-5-ND	5.64	5.18	4.60	3.91		AQV101		
		700mA	40V	1,500	0.3/0.5	—	6-SMD	255-2105-5-ND <b>NEW!</b>	5.64	5.18	4.60	3.91		AQV101A		
		700mA	40V	1,500	0.3/0.5	—	6-SMD	255-2105-2-ND† <b>NEW!</b>						AQV101AZ		
		600mA	60V	1,500	0.37/0.7	—	6-Dip	255-1946-ND	5.64	5.18	4.60	3.91		AQV102		
		600mA	60V	1,500	0.37/0.7	—	6-SMD	255-1947-ND	5.64	5.18	4.60	3.91		AQV102A		
6	SPST-NO	500mA	40V	1,500	0.6/1.0	—	6-Dip	255-1948-ND	6.35	5.83	5.18	4.41		AQV201		
		500mA	40V	1,500	0.6/1.0	—	6-SMD	255-1547-5-ND	6.35	5.83	5.18	4.41		AQV201A		
		500mA	40V	1,500	0.6/1.0	—	6-SMD	255-1547-2-ND† <b>NEW!</b>						AQV201AZ		
		400mA	60V	1,500	0.74/1.4	—	6-Dip	255-1548-5-ND	6.35	5.83	5.18	4.41		AQV202		
		400mA	60V	1,500	0.74/1.4	—	6-SMD	255-2106-5-ND <b>NEW!</b>	6.35	5.83	5.18	4.41		AQV202A		
		200mA	250V	1,500	5.5/8.0	—	6-SMD	255-1949-ND	6.35	5.83	5.18	4.41		AQV203A		
7	SPST-NO	130mA	350V	1,500	23/35	Standard Version	6-Dip	255-1950-ND	3.87	3.56	3.16	2.69		AQV210		
		130mA	350V	1,500	23/35	Economy Version	6-Dip	255-1143-5-ND	2.16	1.98	1.76	1.50		AQV210E		
		130mA	350V	1,500	23/35	Economy Version	6-SMD	255-1144-5-ND	2.16	1.98	1.76	1.50		AQV210EA		
		130mA	350V	1,500	23/35	Economy Version	6-SMD	255-1144-2-ND† <b>NEW!</b>						AQV210EAX		
		130mA	350V	5,000	23/35	Economy Version	6-Dip	255-1145-5-ND	2.16	1.98	1.76	1.50		AQV210EH		
		130mA	350V	5,000	23/35	Economy Version	6-SMD	255-1146-5-ND	2.16	1.98	1.76	1.50		AQV210EHA		
		130mA	350V	5,000	23/35	Economy Version	6-SMD	255-1146-2-ND† <b>NEW!</b>						AQV210EHAX		
		130mA	350V	5,000	20/25	w/ Current Limit	6-Dip	255-1418-5-ND	2.23	2.05	1.82	1.55		AQV210HL		
		130mA	350V	5,000	20/25	w/ Current Limit	6-SMD	255-1419-5-ND	2.23	2.05	1.82	1.55		AQV210HLA		
		120mA	350V	1,500	23/35	—	—	6-SOP	255-1147-5-ND	2.16	1.98	1.76	1.50		AQV210S	
120mA	350V	1,500	23/35	—	—	6-SOP	255-1147-2-ND† <b>NEW!</b>						AQV210SX			
400mA	60V	1,500	0.83/2.5	—	—	6-Dip	255-1148-5-ND	3.87	3.56	3.16	2.69		AQV212			
400mA	60V	1,500	0.83/2.5	—	—	6-SMD	255-1149-5-ND	3.87	3.56	3.16	2.69		AQV212A			

† Tape and Reel

(Continued)

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