

# PANASONIC Solid State Relays

# Panasonic

RoHS Compliant This product is RoHS compliant.

DIMENSIONS: mm (in.)

**A**

**B**

**C**

**D**

**1**

**2**

**3**

Panasonic Solid State Relays can handle load currents from 0.5A up to 40A, and were developed specifically for industrial equipment control. Compact Phototriac Coupler and Triac Output with high on-state RMS current up to 1.2A. Versatile PC board mount AQ1 with AC and DC outputs and optional heat sink Economical AQN handles up to 40A load current

## AQ2 SERIES - SOLID STATE RELAYS

**Features:**

- 10A high-capacity realized for PC board terminal (with heat sink): SSR for compact PC boards with 10A capacity that is two times greater than our previous model. It is suitable for longlife, highly frequent control
- VDE (EN60950-1) reinforced insulation compliant: Fully satisfies demand for safety by guaranteeing compliance with EN60950-1 safety standard and featuring 3,000V reinforced insulation (AQ2A2-ZT4/32VDC, AQ2A2-J-ZT4/32VDC and AQ10A2-ZT4/32VDC)
- Superior anti-vibration and antishock characteristics: The body is molded as a single unit with flame resistant resin which makes it highly resistant against vibration and shock, and gives it superior protection from environment. The body can also be washed
- Reduced noise generation: The load will operate at close to zero voltage even when the input signal is applied during a cycle
- Also, even if an input signal is cancelled during a cycle, the load is cut off at close to zero current. For this reason, hardly any noise is produced and radio frequency interference (RFI) and electromagnetic interference (EMI) are kept to a minimum
- Built-in Snubber circuit prevents malfunction

**Typical Application:**

- Printing machines
- Packing machines
- Traffic signal control
- Automatic ticket punchers
- Terminal equipment of data processing
- Computer peripherals
- NC machines



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For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Panasonic Part No.	Fig.	Max. Load Current (A)	Voltage (VDC)	Load Voltage (VAC)	Price Each			
						1	25	50	100
769-AQ2A2-C1-T24VDC	AQ2A2-C1-T24VDC	A1	2	24	75 -250	12.26	11.27	10.02	8.50
769-AQ2A2-C1-T5VDC	AQ2A2-C1-T5VDC	A1	2	5	75 -250	11.75	10.66	9.51	8.08
769-AQ2A2-C1-T12VDC	AQ2A2-C1-T12VDC	A1	2	12	750-250	12.25	11.22	10.02	8.51
769-AQ2A2-C1-ZT24VDC	AQ2A2-C1-ZT24VDC	A1	2	24	750-250	14.89	13.63	12.18	10.35
769-AQ2A2-C1-ZT5VDC	AQ2A2-C1-ZT5VDC	A1	2	5	750-250	15.55	14.23	12.72	10.80

## AQH SERIES - SOLID STATE RELAYS

**Features:**

- Compact DIP type SSR that's ideal for AC load control for AC load control
- Handles both 100 and 200VAC loads
- High dielectric strength: 5,000VAC (between input and output)
- Supports 0.3A, 0.6A, 0.9A and 1.2A ON-state RMS currents
- The 1.2 A type saves space with a DIP 8-pin package

**Typical Application:**

- Home appliances
- Industrial equipment market



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MOUSER STOCK NO.	Panasonic Part No.	Fig.	Peak Voltage (VAC)	RMS Current (A)	Terminal Type	Price Each			
						1	25	50	100
769-AQH1213	AQH1213	B2	600	0.6	Thru-Hole	1.39	1.34	1.30	1.26
769-AQH2213	AQH2213	B2	600	0.9	Thru-Hole	1.75	1.71	1.61	1.40
769-AQH2223	AQH2223	B2	600	0.9	Thru-Hole	2.03	1.86	1.65	1.41
769-AQH1223	AQH1223	B2	600	0.6	Thru-Hole	1.80	1.62	1.44	1.30
769-AQH2213A	AQH2213A	C2	600	0.9	SMD	1.85	1.70	1.51	1.28
769-AQH1213A	AQH1213A	C2	600	0.6	SMD	1.93	1.77	1.58	1.33
769-AQH1223A	AQH1223A	C2	600	0.6	SMD	1.98	1.81	1.62	1.37
769-AQH2223A	AQH2223A	C2	600	0.6	SMD	2.03	1.86	1.65	1.41

## AQS SERIES

**Features:**

- Built-in input resistor means less man-hours mounting
- Saves space on Board
- Wide variety small package



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MOUSER STOCK NO.	Panasonic Part No.	Fig.	Load Voltage	Load Current (A)	Terminal Type	Price Each			
						1	25	50	100
769-AQS221FR2S	AQS221FR2S	D3	400	.16	SMD	31.57	28.06	24.82	23.86
769-AQS221FN2S	AQS221FN2S	D3	400	.06	SMD	29.20	26.82	23.84	22.99
769-AQS225R2S	AQS225R2S	D3	400	.20	SMD	20.07	19.46	19.20	17.00