50W Series

PCB Mount



PRODUCT DESCRIPTIONS

The 50W Series consists of a mercury switch, and operates without switch bouncing. This series is suitable for applications requiring high carry current capacity. In addition, the dielectric strength between contacts is rated 1KV as a standard catalog item, and ideal for applications requiring a higher degree of dielectric strength. We also provide a wide range of support to high-load environment.

The configuration shown here is Form A.

SPECIFICATIONS

50W Series		50W-1A□□			50W-2A□□			Wetted Mercury
Parameters	Units	1 Form A			2 Form A			Test Conditions
Coil Specifications								
Nominal Coil Voltage Coil Resistance Operate Voltage Release Voltage	VDC Ω VDC Max VDC Min	5.0 100 4.0 0.7	12.0 400 9.6 1.2	24.0 1600 19.2 2.4	5.0 80 4.0 0.7	12.0 300 9.6 1.2	24.0 1200 19.2 2.4	±10% @ 20°C 15°C to 35°C 15°C to 35°C
Contact Ratings								
Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy Contact Resistance Contact Resistance Stability	Volts Amps Amps Watts x10 ⁶ Cycle mΩ mΩ	1000 (at 1mA) 1.0 2.0 50 1000 100 2.0					Max DC/Peak AC resistance Max DC/Peak AC resistance Max DC/Peak AC resistance Max DC/Peak AC resistance @ 1V 10mA Max initial @ operate voltage Max initial @ operate voltage	
Relay Specifications								
Insulation Resistance Dielectric Strength	Ω Min VDC Min VDC Min VDC Min	10 ¹⁰ 1000 1000* 1000*					Between all isolated pins @ 500V 20°C 40%RH Between contacts Contacts to shield Contacts/Shield to coil	
Operate Time (No Bounce) Release Time	msec Max	3.0					@ nominal coil voltage 50Hz square wave	
Release Time msec Max Environmental Ratings			3.0					Diode suppression
Measurement Reference Conditions Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa		Storage temp: -20°C to +80°C Operate temp: -10°C to +60°C Vibration: 20G's to 2000Hz Shock: 50G's						

Ordering Code:

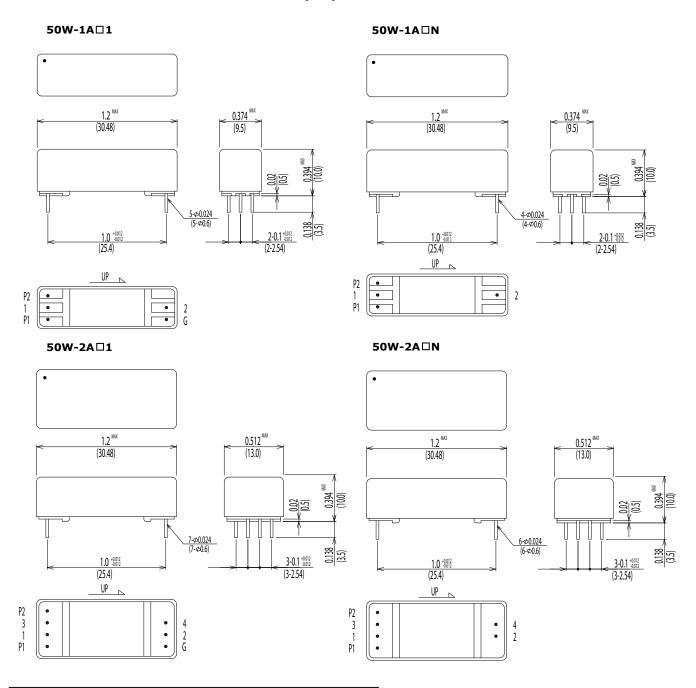
50W-1A□1)□2)

 \Box_1)=1 (5.0VDC), 2 (12.0VDC), 3 (24.0VDC) \Box_2)=1 (Electrostatic) *, N (No shield)

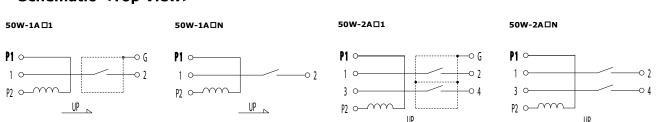
50W-2A□1)□2)

 \square_1 =1 (5.0VDC), 2 (12.0VDC), 3 (24.0VDC) \square_2 =1 (Electrostatic) *, N (No shield)

Dimensions All Dimensions are inches (mm)



Schematic <Top View>



Note: Hg wet contacts must be mounted within 30° of vertical plane.