

57W Series

PCB Mount /EMF

PRODUCT DESCRIPTIONS



The 57W Series is a 2 Form A version of the mercury EMF relay, which has acquired a favorable reputation. This mercury relay achieves the EMF rate less than 10 μ V, and allows effective utilization of smaller mounting area.

SPECIFICATIONS

57W Series		57W-2A□1N0			
Parameters	Units	2 Form A			Test Conditions
Coil Specifications					
Nominal Coil Voltage	VDC	5.0	12.0	24.0	±10% @ 20°C @ 20°C @ 20°C
Coil Resistance	Ω	60	300	1200	
Operate Voltage	VDC Max	3.75	8.8	17.6	
Release Voltage	VDC Min	0.7	1.2	2.4	
Contact Ratings					
Switching Voltage	Volts	1000			Max DC/Peak AC resistance
Switching Current	Amps	1.0			Max DC/Peak AC resistance
Carry Current	Amps	5.2			Max DC/Peak AC resistance(@30°C)
Contact Rating	Watts	50			Max DC/Peak AC resistance
Life Expectancy	x10 ⁶ Cycle	1000			@ 1V 10mA
Contact Resistance	m Ω	50			Max initial @ operate voltage
Contact Resistance Stability	m Ω	2.0			Max initial @ operate voltage
Relay Specifications					
Insulation Resistance	Ω Min	10 ¹⁰			Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength (Static)	VDC Min	1000			Between contacts
	VDC Min	1000			Contacts to shield
	VDC Min	1000			Contacts to coil
Operate Time (No Bounce)	msec Max	2.5			@ nominal coil voltage 50Hz square wave
Release Time	msec Max	2.0			Diode suppression
Thermal EMF	μ V Max	10.0			@nominal coil voltage, 300 sec
Measurement Reference Conditions			Environmental Ratings		
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		

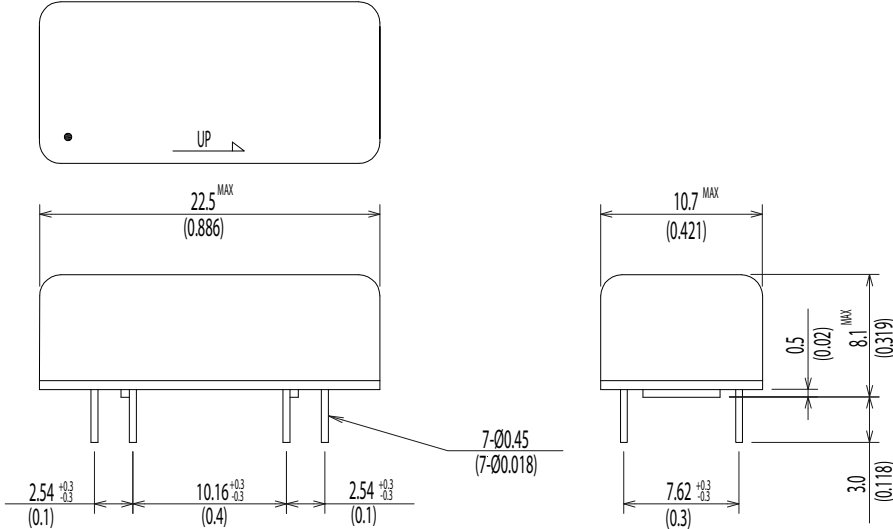
Ordering Code:

57W-2A□1N0

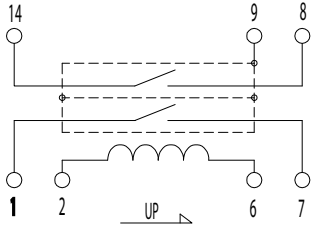
□=1 (5.0VDC), 2 (12.0VDC), 3 (24.0VDC)

Dimensions All Dimensions are mm (inch)

57W-2A□1N0



Schematic <Top View>



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