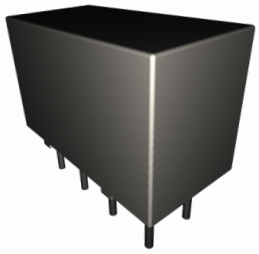
54D Series

PCB Mount / EMF



PRODUCT DESCRIPTIONS

The 54D Series is a relay specially designed to reduce thermal offset voltage generated by the relay. We especially provide the series to the low voltage environment and board measurement applications for VXI/PXI. We offer a variety of package styles such as standard and smaller sized ones to fit your application needs.

We also provide customization service for your specific requirements.

SPECIFICATIONS

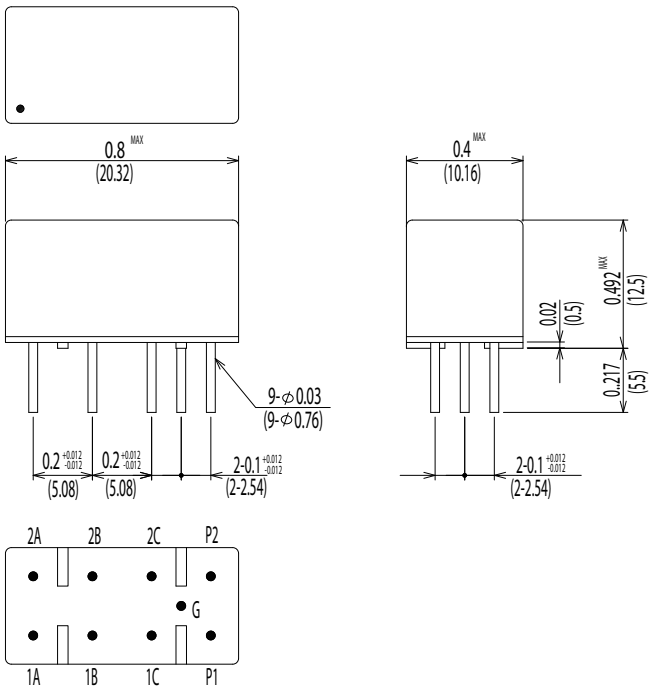
RoHS COMPLIANT

54D Series		54D-2E21N2	Low Thermal
Parameters	Units	2 Form C	Test Conditions
Coil Specifications			
Nominal Coil Voltage	VDC	12.0	
Coil Resistance	Ω	500	±10% @ 20°C
Operate Voltage	VDC Max	8.5	15°C to 35°C
Release Voltage	VDC Min	1.2	15°C to 35°C
Contact Ratings			
Switching Voltage	Volts	100	Max DC/Peak AC resistance
Switching Current	Amps	0.5	Max DC/Peak AC resistance
Carry Current	Amps	1.0	Max DC/Peak AC resistance
Contact Rating	Watts	10	Max DC/Peak AC resistance
Life Expectancy	$x10^6$ Cycle	1000	@ 1V 10mA
Contact Resistance	mΩ	150	Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0	Max initial @ operate voltage
Relay Specifications			
Insulation Resistance	Ω Min	10^{12}	Between all isolated pins @ 100V 20°C 40%RH
Dielectric Strength	VDC Min	200	Between contacts
	VDC Min	200	Contacts to shield
	VDC Min	200	Contacts/Shield to coil
Operate Time (Including Bounce)	msec Max	1.0	@ nominal coil voltage 100Hz square wave
Release Time	msec Max	1.0	Diode suppression
Thermal EMF	µV-Max	50.0	Test after rated voltage applied for 15 minutes
Environmental Ratings			
Measurement Reference Conditions Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa		Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's	

Dimensions

All Dimensions are inches (mm)

54D-2E21N2



Schematic <Top View>