MFS Series Reed Relays

PCB Ultra Density

The MFS series reed relay features an ultra-high-density vertical square shape, perfect for high-density PCB assembly. With a surface size of just 4.35mm x 4.35mm, it is the smallest in our product line. This compact size meets the KGD demands of the IC industry, allowing for the mounting of 500 relays on an 8" board and 1000 relays on a 12" board.

We also offer additional options such as single/double shield and relay sockets for easy maintenance. Please contact our sales engineers for more details.

		MFS-E105N MFS-E105D	MFS-E112N MFS-E112D	
Parameters	Units	1 Form A		Test Conditions
Coil Specifications				
Nominal Coil Voltage	VDC	5.0	12.0	
Coil Resistance	Ω	150	500	±10% @ 20°C
Operate Voltage	VDC Max	3.75	8.8	@ 20°C
Release Voltage	VDC Min	0.7	1.2	@ 20°C
Contact Ratings				
Switching Voltage	Volts	50		Max DC/Peak AC resistance
Switching Current	Amps	0.2		Max DC/Peak AC resistance
Carry Current	Amps	0.75		Max DC/Peak AC resistance(@30°C)
Contact Rating	Watts	5		Max DC/Peak AC resistance
Life Expectancy	x10^6 Cycle	300		@ 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^{10}		Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength (Static)	VDC Min	10^{10}		Between contacts
	VDC Min			Contacts to shield
	VDC Min	150		Contacts to coil
	VDC Min	150		Shield to coil
Operate Time (Including Bounce)	msec Max	0.3		@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	0.3		Diode suppression

Measurement Reference Conditions	Environmental Ratings
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 Processing temp: 260°C max for 60sec. dwell time

RoHS

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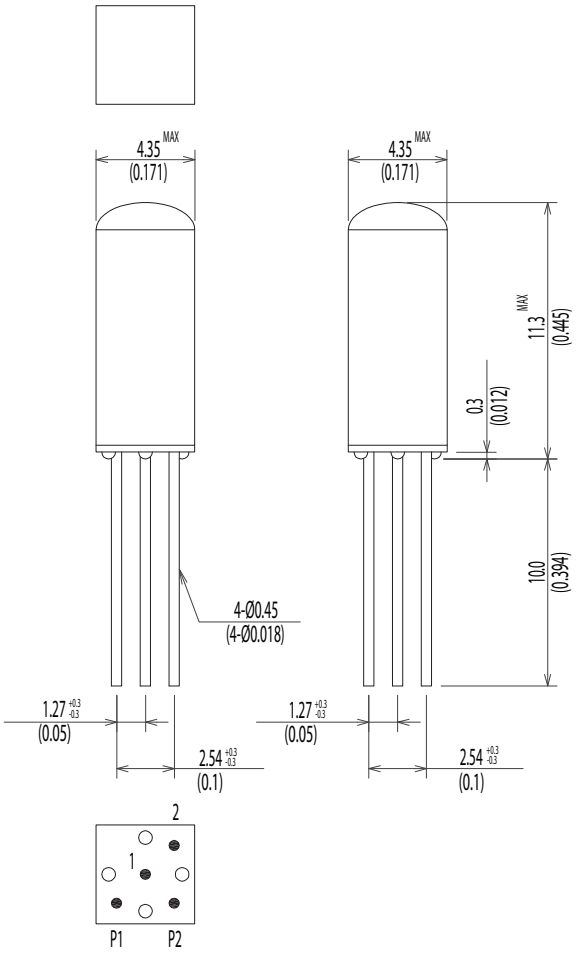
Dimensions

All Dimensions are mm (inch)



Schematic <Top View>