

MFS Series Reed Relays

PCB High Density

Ultra-compact and lightweight reed relay. Can be easily mounted in narrow spaces, and optimal for high density market demand. The MFS series offers a 1 Form A, 2 Form A, and 1 Form C (SPDT) relay option. Suitable for load board applications and high density switching matrix.

- SPDT High Density
- 3.3V, 5V, 12V Coil available
- Magnetic Shield
- Smallest Mounting Space: 4.9mm x 4.9mm
- Electrostatic Shield and Diode Options

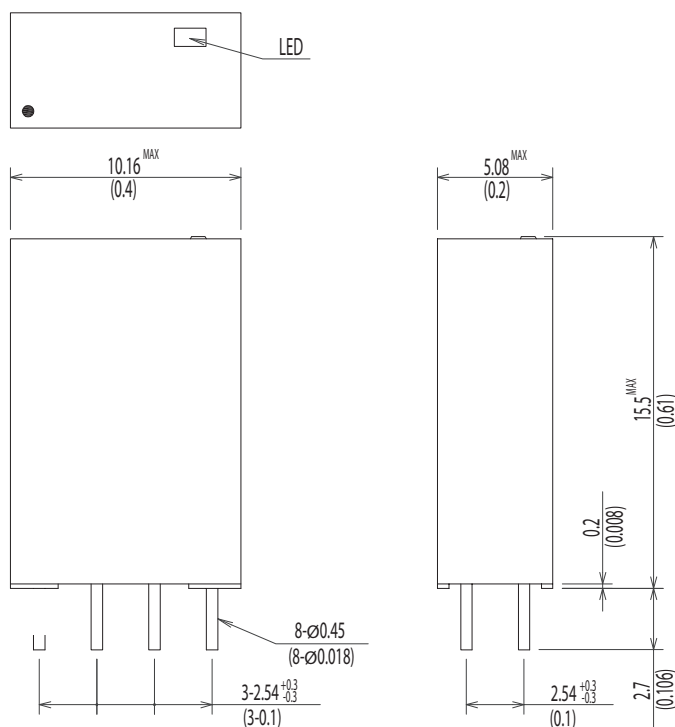


		MFS-E1A03 MFS-E2A03 MFS-E1T03	MFS-E1A05 MFS-E2A05 MFS-E1T05	MFS-E1A12 MFS-E2A12 MFS-E1T12	
Parameters	Units	1, 2 Form A, 1 FormC (1A+1B)			Test Conditions
Coil Specifications					
Nominal Coil Voltage	VDC	3.3	5.0	12.0	±10% @ 20°C @20°C @20°C
Coil Resistance	Ω	70	110	550	
Operate Voltage	VDC Max	2.8	3.75	8.8	
Release Voltage	VDC Min	0.5	0.7	1.2	
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(@30°C)
Contact Rating	Watts	10			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		10 ¹⁰	Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength (Static)	VDC Min	150		150	Between contacts
	VDC Min	No shield		150	Contacts to shield
	VDC Min	150		150	Contacts/shield to coil
Operate Time (Including Bounce)	msec Max	0.3		0.3	@ nominal coil voltage 100 Hz square wave
	msec Max	0.3		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 +60°C Vibration: 20G's to 2000Hz Shock: 50G's Processing temp: 260°C max for 60sec. dwell time			

RoHS

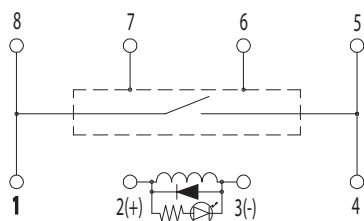
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MFS-1Axx/MFS-2Axx/MFS-1Txx

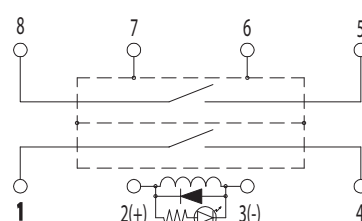


Schematic <Top View>

MFS-1Axx



MFS-2Axx



MFS-1Txx

