SHR SENSOR RELAY TECH LTD

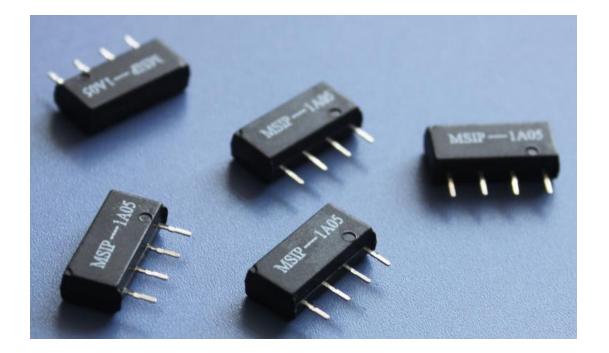
High Voltage Reed Relay

Reed Relay Manufacturer

www.mi-relay.com sales@mi-relay.com

Reed Relays

MSIP Series



DESCRIPTION

MSIP is a micro single-in-line Reed Relay using only 15.2*4.1 mm of board space which is half the standard of SIP requirement. The MSIP series is ideal for use in ATE applications and other high reliability test, security systems, measurement and telecommunications applications.

FEATURES

- Epoxy molded, micro single-in-line package.
- High speed switching, high board density and long life.
- Optional coil suppression diode protects coil drive circuits.
- Magnetic shield reduces interaction.

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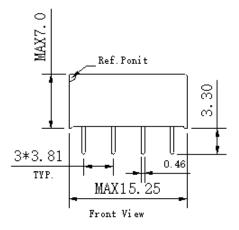
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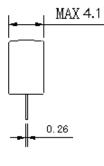
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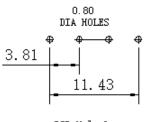
DIMENSIONS

All dimensions in mm

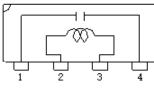




Side View



PCB Hole Layout



CIRCUIT DIAGRAM

RELAY DATA

All Data at 20°C	Contact Form →	Form A			
Contact Ratings	Conditions	Min. Typ.		Max.	Units
Switching Power	Any DC combination of V & A not to exceed their individualmax.'s			10	w
Switching Voltage	DC or peak AC			100	v
Switching Current	DC or peak AC			1.0	Α
Carry Current	DC or peak AC			1.2	A
Static Contact Resistance	w/ 0.5 V & 10mA			160	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	Across Contact Coil - Contact	10 ¹⁰ 10 ¹²	10 ¹³		Ω
Breakdown Voltage across Contacts	Across Contact Coil - Contact	220 1500			VDC
Operation Time incl. Bounce	at nominal voltage			0.5	ms
Release Time	with no coil suppression			0.1	ms
Capacitance	Across Contact Coil - Contact		0.4 2.0		pF

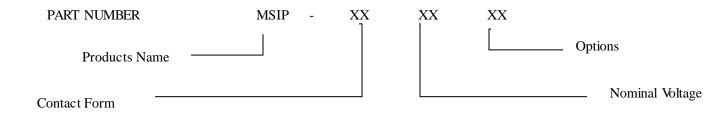
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www.mi-relay.com sales@mi-relay.com Life Expectance Switch Voltage 5V - 10 mA DC <10 pF stray cap. 100 10⁶ Cycles Environmental Data Shock Resistance 1/2 sinus wave for 11 ms 50 g 10 - 2000 Hz Vibration Resistance 20 g Ambient Temperature 10°C/ minute max. allowable 70 °C Stock Temperature 10°C/ minute max. allowable -35 95 <u>°C</u> Soldering Temperature 260 5 sec. °C

ORDER INFORMATION



Series	Part	Schematic	Nominal	Coil	Nominal	Must	Must	Maximum
	Number	Contact Form	Voltage	Resistance	Input	Operate	Release	Voltage
		(Bottom View)	(VDC)	(ohms10%)	Power	Voltage	Voltage	(VDC)
					(m W)	(VDC)	(VDC)	
	M SIP-1A05		5	280	90	4.0	0.4	21.0
MSIP	M SIP-1A05HR		5	500	50	4.0	0.4	21
	M SIP-1A12	1 +3 -5 7	12	1000	144	9.0	1.0	30
Ontinu	1	1	1	1	I	I	1	1

Option:

Nil: Std Type

B: Diode

S: Magnetic Shield

BS: Diode and Magnetic Shield

HR: High resistance version (5 Volt option only)