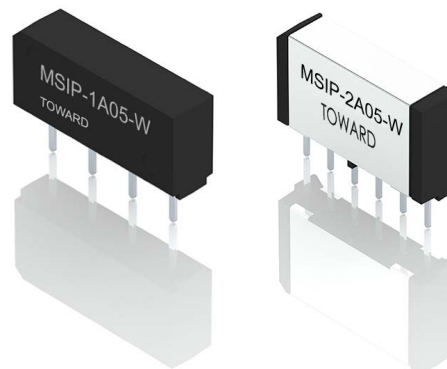


MSIP-W Series

Mini Size 1a, 2a Reed Relay

Features

- Magnetic shield-reduces interaction.
- Optional coil suppression diode protects coil drive circuits.
- High Insulation Resistance.
- High speed switching.
- High board density and long life.
- Molded thermoset body on integral lead frame design.
- High reliability,hermetically sealed contacts for long life.



Order Code

MSIP-XX XX X-W
a b c d

- a : Contact Form : 1A=1FormA, 2A=2FormA
b : Nominal Coil Voltage: 05=5VDC, 12=12VDC
c : Nil=Standard type, D=Diode, S=Magnetic shield,
N=Diode+Magnetic shield
d : Special code:Nil=Standard, W= High temperature application

Coil Data-Standard Type (at 20°C)

| Part Number | Nominal Voltage DC $\pm 10\%$ [V] | Coil Resistance $\pm 10\%$ [ohm] | Nominal Current [mA] | Must Release Voltage MIN. [V] at 20°C | Must Operate Voltage MAX. [V] at 20°C |
|-------------|--------------------------------------|-------------------------------------|-------------------------|--|--|
| MSIP-1A-W | 5 | 500 | 10 | 0.7 | 3.0 |
| | 12 | 1000 | 12 | 1.3 | 7.0 |
| MSIP-2A-W | 5 | 375 | 13 | 0.7 | 3.0 |
| | 12 | 750 | 16 | 1.3 | 7.0 |

Contact Specifications

| Contact Form | 1 Form A | 2 Form A |
|---------------------------------|----------|----------|
| Contact Rating | 10 W | 10 W |
| Max. Switching Voltage | 200 V | 200 V |
| Max. Switching Current | 0.5 A | 0.5 A |
| Max. Carry Current | 1.5 A | 1.2 A |
| Max. Static Contact Resistance | 125 mΩ | 140 mΩ |
| Max. Dynamic Contact Resistance | 150 mΩ | 200 mΩ |

Electrical Specifications

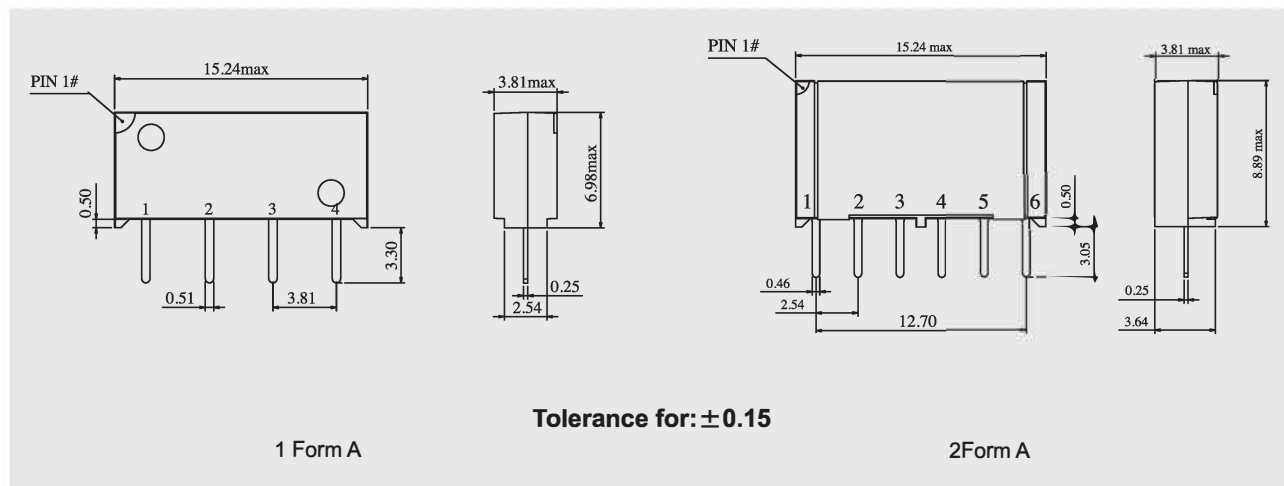
| Contact Form | 1 Form A | 2 Form A |
|--|------------------|------------------|
| Breakdown Voltage : | 200 VDC | 200 VDC |
| | 1500 VDC | 1500 VDC |
| Insulation Resistance | $10^{12} \Omega$ | $10^{12} \Omega$ |
| Capacitance - Typical Across open contacts | 0.1 pF | 1.0 pF |
| Open contact to coil | 2.0 pF | 1.4 pF |
| Operate Time Including bounce - Typical | 0.5 mS | 0.75 mS |
| Release Time | 0.3 mS | 0.5 mS |

Mechanical Specifications

| | |
|-----------------------------|-----|
| Vibration(0 to 2KHz 1.5mm) | 20G |
| shock(11mS 1/2 Sin Wave) | 50G |

Environmental

| | | |
|------------------------------|-------------------|-------------------|
| Operating Temp | -40°C ~ +125°C | |
| Storage Temp | -40°C ~ +125°C | |
| Life Expectancy(1.0VDC 10mA) | 5X10 ⁸ | 5X10 ⁸ |

Dimensions (Unit : mm)**Wiring Diagrams (Bottom View)**