9900 SERIES/SURFACE MOUNT REED RELAYS

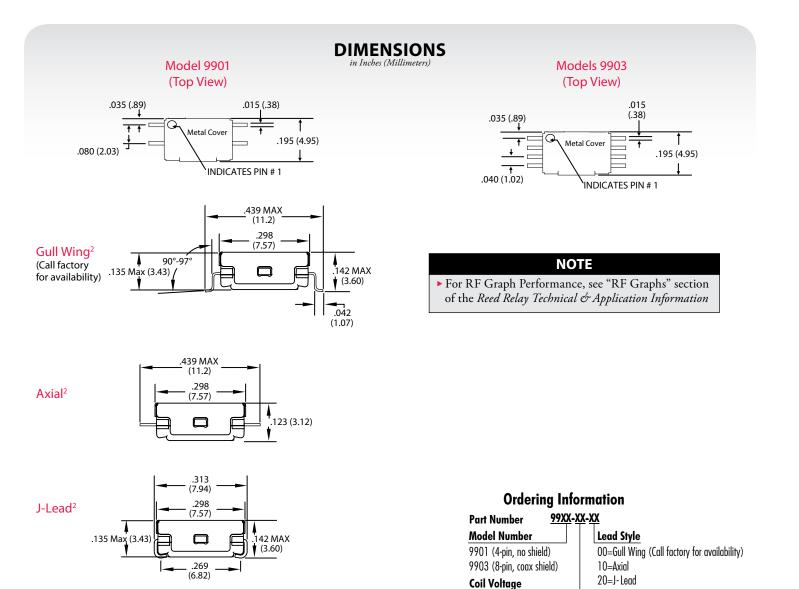


9900 Series Surface Mount Reed Relays

Ideally suited to the needs of Automated Test Equipment and Instrumentation requirements, Coto's 9900 Series is the smallest Surface Mount Reed Relay available. The external Magnetic Shield reduces interaction between parts in high density boards. Small size makes these relays ideal for designs in high speed, high pin count VLSI testers where speed, size and performance are all needed.

9900 Series Features

- Available in Axial, Gull wing and "J" lead configurations
- ▶ Tape and Reel packaging available
- High reliability, hermetically sealed contacts for long life
- ▶ High Insulation Resistance $10^{12}\Omega$ minimum
- Coaxial shield for 50Ω impedance
- ▶ 6.5 GHz bandwidth for RF and Pulse switching (fast rise time pulses) [9903 only]
- External Magnetic Shield
- ▶ RoHS compliant



06262014

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05=5 volts

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MODEL NUMBER 9901 9903 **Test Conditions** Units 1 Form A 1 Form A **Parameters** 50Ω Coaxial **COIL SPECS.** Nom. Coil Voltage VDC 5 5 VDC Max. Coil Voltage 6 6 **Coil Resistance** +/- 10%, 25° C Ω 150 150 **Operate Voltage** Must Operate by VDC - Max. 3.8 3.7 **Release Voltage** Must Release by VDC - Min. 0.4 0.4 **CONTACT RATINGS** Switching Voltage Max DC/Peak AC Resist. Volts 100 100 Switching Current Max DC/Peak AC Resist. 0.25 Amps 0.25 Carry Current Max DC/Peak AC Resist. 0.5 0.5 Amps **Contact Rating** Max DC/Peak AC Resist. Watts 3 3 Life Expectancy-Typical¹ Signal Level 1.0V, 10mA x 10⁶ Ops. 1000 1000 Life Expectancy-Typical¹ Signal Level 5.0V, 10mA x 10⁶ Ops. 100 100 Static Contact Ω 0.15 50mV, 10mA 0.15 Resistance (max. init.) Dynamic Contact 0.5V.50mA Ω 0.15 0.15 Resistance (max. init.) at 100 Hz, 1.5 msec **RELAY SPECIFICATIONS** Insulation Resistance Between all Isolated Pins 10¹² 10¹² Ω at 100V, 25°C, 40% RH (minimum) рF No Shield Capacitance - Typical Shield Floating рF Across Open Contacts Shield Guarding рF 0.2 _ No Shield рF _ _ Open Contact to Coil Shield Floating рF Shield Guarding рF 0.5 **Between Contacts** VDC/peak AC 160 160 **Dielectric Strength** Contacts to Coil VDC/peak AC 1500 (minimum) Contacts/Shield to Coil VDC/peak AC 1500 1500 **Operate Time - including** At Nominal Coil Voltage, 0.25 0.25 msec. bounce - Typical 30 Hz Square Wave **Release Time - Typical** 0.05 msec. 0.05 4 2 6 2 6

Top View: Dot stamped on top of relay refers to pin #1 location

Notes:

 1 Consult factory for life expectancy at other switching loads. Contact resistance 2.0 Ω defines end of life.

² Surface mount component processing temperature: 500°F (260°C) max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.

Environmental Ratings:

Storage Temp: -35°C to *100°C; Operating Temp: -20°C to *85°C All electrical parameters measured at 25°C unless otherwise specified. Vibration: 20 G's to 2000 Hz; Shock: 50 G's Moisture Sensitivity per J-STD-020V, Level 2

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