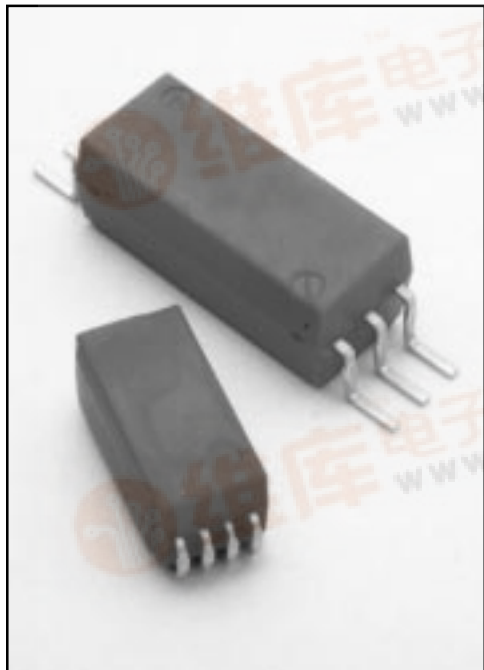


9400-9800 Series/Surface Mount Reed Relays

[查询"9401"供应商](#)



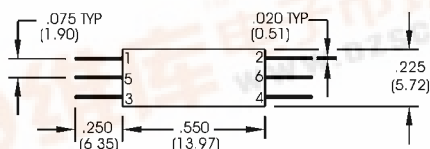
SURFACE MOUNT REED RELAYS

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9400 Series specification tables allow you to select the appropriate relay for your particular application. The Coto 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. This small size allows for high density packing, and is ideal for high speed, high pin count VLSI testers. Other applications include communications systems and instrumentation. If your requirements differ, please consult your local representative or Coto's Factory to discuss a custom design.

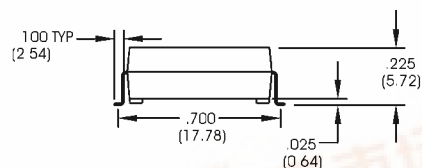
SERIES FEATURES

- ◆ 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 50 Ω impedance. Excellent for RF and Fast Rise Time Pulse switching. (up to 6 GHz)
- ◆ Compact surface mount package

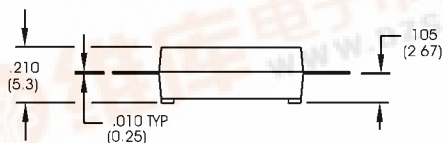
Model 9400



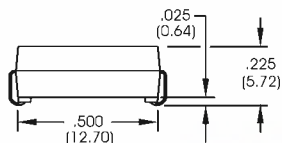
Gull Wing²



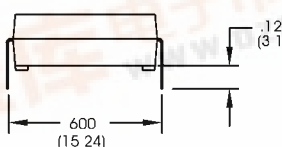
Axial



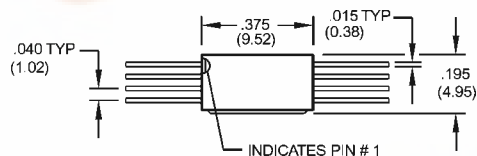
J-Lead²



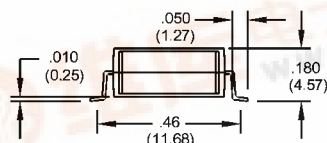
Radial



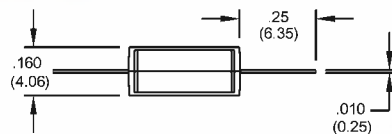
Model 9800



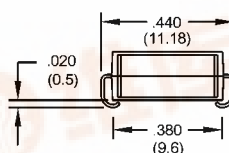
Gull Wing²



Axial



J-Lead²



Ordering Information

| Part Number | 9XXX-XX-XX |
|------------------------|----------------------|
| Model Number | Lead Style |
| 9401 9402 9802 | 00=Gull Wing |
| Coil Voltage | 10=Axial |
| 05=5 volts | 20=J-Lead |
| 12=12 volts (9802 N/A) | 30=Radial (9802 N/A) |

Dimensions in Inches (Millimeters)



RHOPOINT COMPONENTS LTD

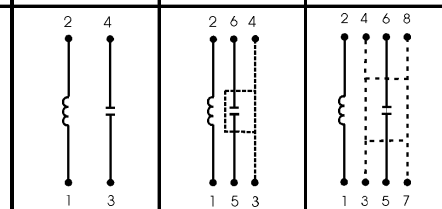
Email: components@rhopoint.co.uk Website: www.rhopoint.co.uk

9400-9800 Series/Surface Mount Reed Relays

[查询"9401"供应商](#)

| Model Number | | | 9401 | | 9402 | | 9802 |
|--|--|------------------------|------------------|------|------------------|------|------------------|
| Parameters | Test Conditions | Units | 1 Form A | | 1 Form A | | 1 Form A |
| | | | 50 Ω Coaxial | | 50 Ω Coaxial | | 50 Ω Coaxial |
| COIL SPECIFICATIONS | | | | | | | |
| Nom. Coil Voltage | | VDC | 5 | 12 | 5 | 12 | 5 |
| Max. Coil Voltage | | VDC | 6.2 | 15.0 | 6.2 | 15.0 | 6 |
| Coil Resistance | +/- 10%, 25° C | Ω | 200 | 825 | 200 | 825 | 150 |
| Operate Voltage | Must Operate by | VDC - Max. | 3.75 | 9.0 | 3.75 | 9.0 | 3.8 |
| Release Voltage | Must Release by | VDC - Min. | 0.4 | 1.0 | 0.4 | 1.0 | 0.4 |
| CONTACT RATINGS | | | | | | | |
| Switching Voltage | Max DC/Peak AC Resist. | Volts | 200 | | 200 | | 100 |
| Switching Current | Max DC/Peak AC Resist. | Amps | 0.5 | | 0.5 | | 0.25 |
| Carry Current | Max DC/Peak AC Resist. | Amps | 1 | | 1 | | 0.5 |
| Contact Rating | Max DC/Peak AC Resist. | Watts | 10 | | 10 | | 3 |
| Life Expectancy-Typical ¹ | Signal Level 1.0V,10mA | x 10 ⁶ Ops. | 250 | | 250 | | 250 |
| Static Contact Resistance (max. init.) | 50mV, 10mA | Ω | 0.125 | | 0.125 | | 0.125 |
| Dynamic Contact Resistance (max. init.) | 0.5V, 50mA at 100 Hz, 1.5 msec | Ω | 0.150 | | 0.150 | | 0.150 |
| RELAY SPECIFICATIONS | | | | | | | |
| Insulation Resistance (minimum) | Between all Isolated Pins at 100V, 25°C, 40% RH | Ω | 10 ¹² | | 10 ¹² | | 10 ¹² |
| Capacitance - Typical | No Shield | pF | 0.2 | | - | | - |
| Across Open Contacts | Shield Floating | pF | - | | 0.4 | | - |
| | Shield Guarding | pF | - | | 0.1 | | 0.2 |
| Open Contact to Coil | No Shield | pF | 1.1 | | - | | - |
| | Shield Floating | pF | - | | 1.1 | | - |
| | Shield Guarding | pF | - | | 0.1 | | 0.5 |
| Closed Contact to Coil | Shield Guarding | pF | - | | - | | 0.5 |
| Contact to Shield | Contacts Open, Shield Floating | pF | - | | 1.1 | | - |
| Dielectric Strength (minimum) | Between Contacts | VDC/peak AC | 300 | | 300 | | 200 |
| | Contacts to Shield | VDC/peak AC | - | | 1500 | | 1500 |
| | Contacts/Shield to Coil | VDC/peak AC | 1500 | | 1500 | | 1500 |
| Operate Time - including bounce - Typical | At Nominal Coil Voltage, 30 Hz Square Wave | msec. | 0.40 | | 0.40 | | 0.25 |
| Release Time - Typical | Zener-Diode Suppression ³ | msec. | 0.20 | | 0.20 | | 0.05 |

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: 430°F(221°C) max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.

³ Consists of 20V Zener-diode and 1N1002 diode in series, connected in parallel with coil.

Environmental Ratings²

Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85°C
The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4%/°C as the ambient temperature varies.
Vibration: 20 G's to 2000 Hz; Shock: 50 G's