

9200-9300 Series / Surface Mount Reed Relays

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SURFACE MOUNT REED RELAYS

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9200, and 9300 Series specification tables allow you to select the appropriate relay for your particular application. If your requirements differ, please consult your local representative or Coto's Factory to discuss a custom design.

SERIES FEATURES

- ◆ High Insulation Resistance - $10^{12} \Omega$ minimum ($10^{13} \Omega$ Typical).
- ◆ High reliability, hermetically sealed contacts for long life.
- ◆ Molded thermoset body on integral lead frame design.
- ◆ High speed switching compared to electromechanical relays.

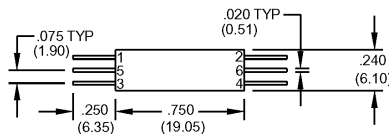
9200 Series

- ◆ Low profile - 0.19" height. Meets high board density requirements.
- ◆ 50 Ω Coaxial Shield for RF and Fast Rise Time Pulse switching.

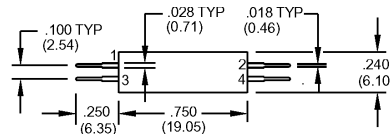
9300 Series

- ◆ Load switching (15 Watts) and high dielectric strength (500 VDC) between contacts.

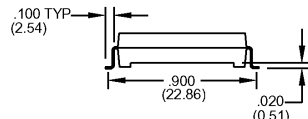
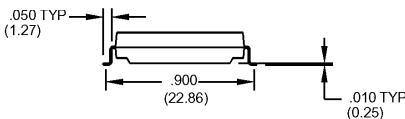
Model 9200



Model 9300

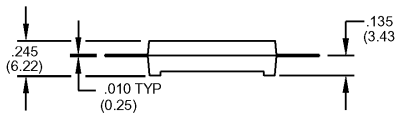
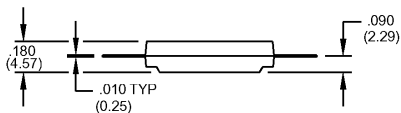


Gull Wing²



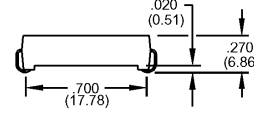
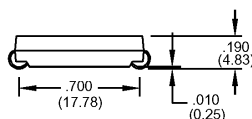
Gull Wing²

Axial



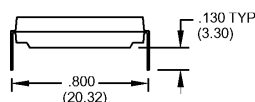
Axial

J-Lead²



J-Lead²

Radial



Dimensions in Inches (Millimeters)

Ordering Information

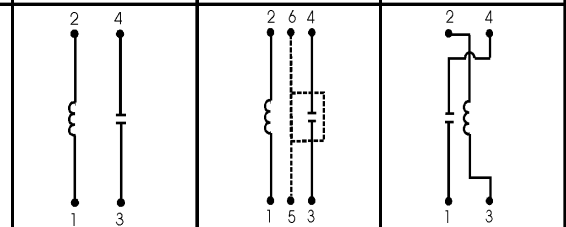
Part Number	9XXX-XX-XX	Lead Style
Model Number		
9201 9202 9301		00=Gull Wing
Coil Voltage		10=Axial
05=5 volts		20=J-Lead
12=12 volts		30=Radial (9301 N/A)

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Model Number	Test Conditions	Units	9201	9202	9301
Parameters			1 Form A	1 Form A 50 Ω Coaxial	1 Form A
COIL SPECS.					
Nom. Coil Voltage		VDC	5 12	5 12	5 12
Max. Coil Voltage		VDC	6.5 15.0	6.5 15.0	6.5 15.0
Coil Resistance	+/- 10%, 25° C	Ω	250 650	150 650	350 1000
Operate Voltage	Must Operate by	VDC - Max.	3.75 9.0	3.75 9.0	3.75 9.0
Release Voltage	Must Release by	VDC - Min.	0.4 1.0	0.4 1.0	0.4 1.0
CONTACT RATINGS					
Switching Voltage	Max DC/Peak AC Resist.	Volts	200	200	200
Switching Current	Max DC/Peak AC Resist.	Amps	0.5	0.5	0.5
Carry Current	Max DC/Peak AC Resist.	Amps	1.5	1.5	1.5
Contact Rating	Max DC/Peak AC Resist.	Watts	10	10	15
Life Expectancy-Typical ¹	Signal Level 1.0V, 10mA	$\times 10^6$ Ops.	1000	1000	250
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.150	0.150	0.150
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.200	0.200
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	0.7	-	0.7
Across Open Contacts	Shield Floating	pF	-	0.8	-
	Shield Guarding	pF	-	0.1	-
Open Contact to Coil	No Shield	pF	1.4	-	1.4
	Shield Floating	pF	-	1.4	-
	Shield Guarding	pF	-	0.2	-
Contact to Shield	Contacts Open, Shield Floating	pF	-	1.4	-
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	300	300	500 ³
	Contacts to Shield	VDC/peak AC	-	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	0.40
Release Time - Typical	Zener-Diode Suppression ⁴	msec.	0.10	0.10	0.10

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



Notes:

¹Consult factory for life expectancy at other switching loads.

²Surface mount component processing temperature: 430°F(221°C) max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.

³Higher dielectric strength available, consult factory.

⁴Consists of 20V Zener-diode and 1N1002 diode in series, connected in parallel with coil.

Environmental Ratings

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