imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

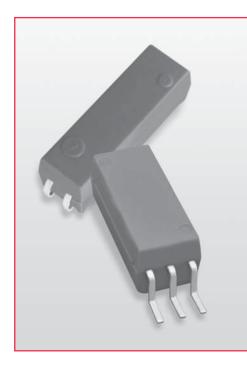


Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



<u>9300-9</u>400 Series/Surface Mount Reed Relays



Surface Mount Reed Relays

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9300 and 9400 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

9300 Series

- Load switching (15 Watts) and high dielectric strength (500 VDC) between contacts
- Proven Reliable to switch telephone loads (48V, 100mA)

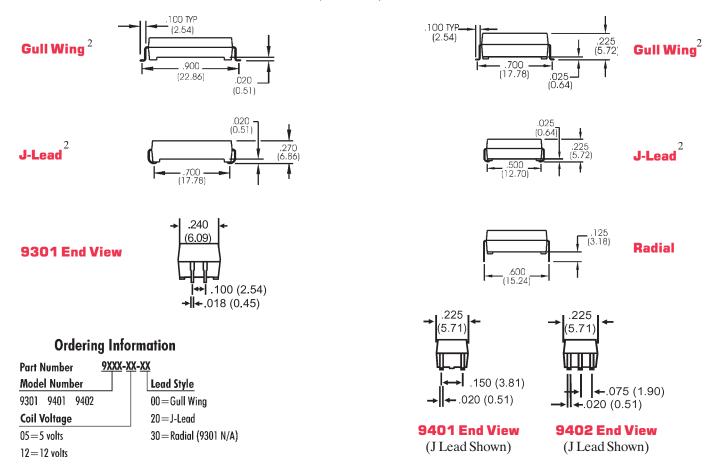
9400 Series

- Small surface mount package (0.225" x 0.550")
- Low capacitance (Contact to Shield 1.1 pF typical)
- Coaxial shield for 50 Ω impedance. Excellent for RF and Fast Rise Time Pulse switching (up to 2.0 GHz)

Model 9300

Dimensions in Inches (Millimeters)





40 COTO TECHNOLOGY (USA) Tel: (401) 943-2686 / Fax (401) 942-0920 • (Europe) Tel: +31-45-5439343 / Fax +31-45-5427216

9300-9400 Series/Surface Mount Reed Relays

Model Number			9301	9401	9402
Parameters	Test Conditions	Units	1 Form A	1 Form A	1 Form A 50 Ω Coaxial
COIL SPECS.					
Nom. Coil Voltage Max. Coil Voltage Coil Resistance Operate Voltage Release Voltage	+/- 10%, 25° C Must Operate by Must Release by	VDC VDC Ω VDC - Max. VDC - Min.	5 12 6.5 15.0 350 1000 3.75 9.0 0.4 1.0	$\begin{array}{cccc} 5 & 12 \\ 6.2 & 15.0 \\ 200 & 825 \\ 3.75 & 9.0 \\ 0.4 & 1.0 \end{array}$	$\begin{array}{cccc} 5 & 12 \\ 6.2 & 15.0 \\ 200 & 825 \\ 3.75 & 9.0 \\ 0.4 & 1.0 \end{array}$
CONTACT RATINGS					
Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy-Typical ¹ Static Contact Resistance (max. init.)	Max DC/Peak AC Resist. Max DC/Peak AC Resist. Max DC/Peak AC Resist. Max DC/Peak AC Resist. Signal Level 1.0V,10mA 50mV, 10mA	Volts Amps Amps Watts x 10 ⁶ Ops. Ω	200 0.5 1.5 15 250 0.150	200 0.5 1 10 250 0.125	200 0.5 1 10 250 0.125
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.150	0.150
RELAY SPECIFICATIONS	Between all Isolated Pins				
Insulation Resistance (minimum)	at 100V, 25°C, 40% RH	Ω	10 ¹²	10 ¹²	10 ¹²
Capacitance - Typical Across Open Contacts	No Shield Shield Floating Shield Guarding	pF pF pF	0.7 - -	0.2	0.4 0.1
Open Contact to Coil	No Shield Shield Floating Shield Guarding	pF pF pF	1.4 - -	1.1 - -	- 1.1 0.1
Contact to Shield	Contacts Open, Shield Floating	pF	-	-	1.1
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	500 ³ - 1500	300 - 1500	300 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	0.20	0.20
Dot stam					

Notes:

¹Consult factory for life expectancy at other switching loads.
²Surface mount component processing temperature: 500°F / 260°C max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.
³Higher dielectric strength available, consult factory.
⁴Consists of 56V Zener diode and 1N4148 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