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!

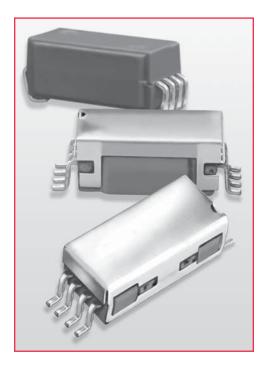


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9800 Series/Surface Mount Reed Relays



SURFACE MOUNT REED RELAYS

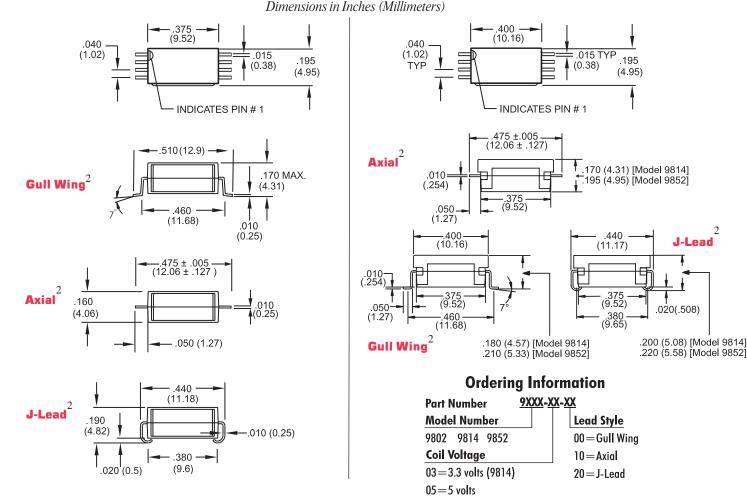
Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. The 9814 extends life at ATE loads 3X or more utilizing Coto's proprietary switch technology. The external Magnetic Shield reduces interaction between parts in high density boards. The 9852 adds a form C capability. Small size plus added features allow for high density packing, and make these relays ideal for designs such as high speed, high pin count VLSI testers where speed, size and performance are all needed.

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 (Form A) ۵
- Coaxial shield for 50 Ω impedance 4
- 6.5 GHz bandwidth for RF and Pulse switching (fast rise time ٠ pulses)
- External Magnetic Shield

Model 9802

Models 9814 & 9852



COTO TECHNOLOGY (USA) Tel: (401) 943-2686 / Fax (401) 942-0920

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9800 Series/Surface Mount Reed Relays

Model Number			9802	9814	9852 ⁴
D			1 Form A	1 Form A	1 Form C
Parameters	Test Conditions	Units	50 Ω Coaxial	50 Ω Coaxial	50 Ω Coaxial
COIL SPECIFICATIONS					
Nom. Coil Voltage		VDC	5	3.3 5	5
Max. Coil Voltage		VDC	6	4 6	6
Coil Resistance	+/- 10%, 25° C	Ω	150	70 150	110
Operate Voltage	Must Operate by	VDC - Max.	3.8	2.5 3.8	3.8
Release Voltage	Must Release by	VDC - Min.	0.4	0.4 0.4	0.4
CONTACT RATINGS					
Switching Voltage	Max DC/Peak AC Resist.	Volts	100	100	30
Switching Current	Max DC/Peak AC Resist.	Amps	0.25	0.25	0.1
Carry Current	Max DC/Peak AC Resist.	Amps	0.5	0.5	0.2
Contact Rating	Max DC/Peak AC Resist.	Watts	3	3	3
Life Expectancy-Typical ¹	Signal Level 1.0V,10mA	x 10^6 Ops.	250	1000	100N/C
Static Contact Resistance	Signal Level 1.0 v,10mA	x to ops.	230	1000	100IN/C
max. init.)	50mV, 10mA	Ω	0.125	0.125	0.150
Dynamic Contact Resistance	0.5V, 50mA				
(max. init.)	at 100 Hz, 1.5 msec	Ω	0.150	0.150	0.150
RELAY SPECIFICATIONS					
Insulation Resistance	Between all Isolated Pins	0	1 0 12	1.012	1.09
(minimum)	at 100V, 25°C, 40% RH	Ω	x 10 ¹²	10 ¹²	10^{9}
Capacitance - Typical	No Shield	pF	-	-	-
Across Open Contacts	Shield Floating	pF	-	-	-
	Shield Guarding	pF	0.2	0.2	1.0
Open Contact to Coil	No Shield	pF	_	_	_
open contact to con	Shield Floating	pF	_	_	_
	Shield Guarding	pF	0.5	0.5	1.0
	-	P1	0.5	0.5	1.0
Closed Contact to Coil	Shield Guarding	pF	0.5	0.5	0.5
Contact to Shield	Contacts Open,	pF	_	_	_
	Shield Floating	pr	-	_	-
Dielectric Strength	Between Contacts	VDC/peak AC	200	200	200
(minimum)	Contacts to Shield	VDC/peak AC	1500	1500	1000
	Contacts/Shield to Coil	VDC/peak AC	1500	1500	1000
Operate Time - including	At Nominal Coil Voltage,	m	0.25	0.25	1.0
bounce - Typical / Max	30 Hz Square Wave	msec.	0.25	0.23	1.0
Release Time - Typical / Min	Zener-Diode Suppression ³	msec.	0.05	0.05	1.0
Ton Viewy Det stor	mad on ton of volou vofore t	a nin #1 logation	2468	2468 ••••	2468 1 1 1 1
Top View: Dot stamped on top of relay refers		to pill #1 location			
Notes:					<u>}</u> ;t⊢1 ;
¹ Consult factory for life expectancy at other					ς ττ
switching loads. Contact resistance 2.0Ω defines					
end of life.			<u>13</u> 57		1 3 5 7
² Surface mount component	processing temperature:	Environment	al B atings	/	
500°F / 260°C max for 1 minute dwell time. Temperature measured on leads where lead exits		Environmental Ratings Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85 The operate and release voltage and the coil resistance are			
series connected in parallel with coil		the ambient temperature varies			

series, connected in parallel with coil. ⁴Custom Coil Designs are available. Contact Coto.

IS the ambient temperature varies. Vibration: 20 G's to 2000 Hz; Shock: 50 G's