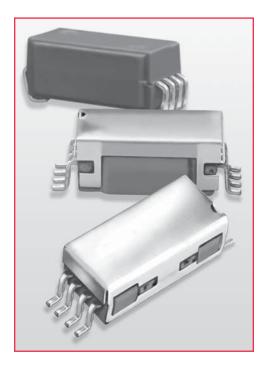
9800 Series/Surface Mount Reed Relays



SURFACE MOUNT REED RELAYS

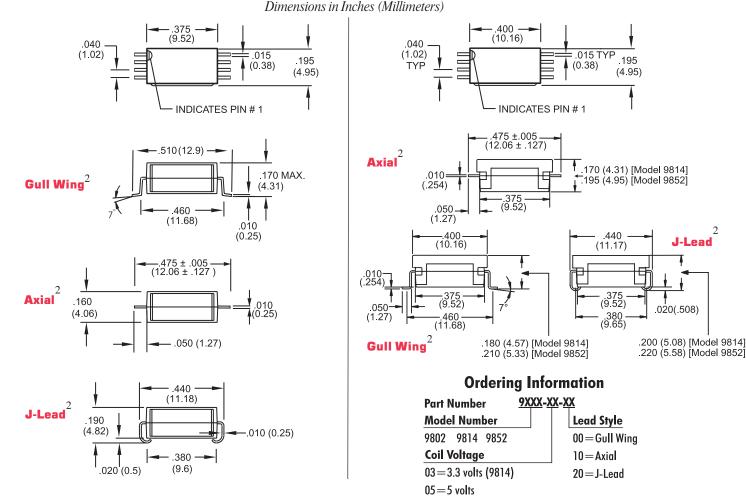
Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. The 9814 extends life at ATE loads 3X or more utilizing Coto's proprietary 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



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9800 Series/Surface Mount Reed Relays

Model Number		9802	9814	9852 ⁴	
Danamatang		T T 1 /	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		A TO Ops.	250	1000	10010/0
max. init.)	50mV, 10mA	Ω	0.125	0.125	0.150
· /	0.517.50mm				
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.150	0.150	0.150
(max. mit.)	at 100 Hz, 1.5 lilsec				
RELAY SPECIFICATIONS					
insulation Resistance	Between all Isolated Pins				
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 pF	-	-	-
-	Shield Guarding	pF	0.2	0.2	1.0
	Shield Guarding	pi	0.2	0.2	1.0
Open Contact to Coil	No Shield	pF	-	-	-
	Shield Floating	pF	-	-	-
	Shield Guarding	pF	0.5	0.5	1.0
Closed Contact to Coil	Shield Guarding	pF	0.5	0.5	0.5
Contact to Shield	Contacts Open,	P	0.0	0.0	0.0
Contact to Shield	Shield Floating	pF	-	-	-
			200	200	200
Dielectric Strength	Between Contacts	VDC/peak AC	200	200	200
(minimum)	Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC	1500 1500	1500 1500	1000 1000
		VDC/peak AC	1300	1500	1000
Operate Time - including	At Nominal Coil Voltage,	msec.	0.25	0.25	1.0
oounce - Typical / Max	30 Hz Square Wave				
Release Time - Typical / Min	Zener-Diode Suppression ³	msec.	0.05	0.05	1.0 2 4 6 8
Top View: Dot star	nped on top of relay refers	to pin #1 location		2468	וֹ וּ בָּוֹ
-	ilped on top of feldy felelo	to pin # 1100ution			.
Notes:			{ ¦↓ ;	l { l	£:4:
¹ Consult factory for life expectancy at other switching loads. Contact resistance 2.0Ω defines					· · · · · · · · · · · · · · · · · · ·
U	esistance 2.002 defines				
end of life. ² Surface mount component	processing temperature.		1357	1357	1357
² Surface mount component processing temperature: 500° F / 260° C max for 1 minute dwell time.		Environmental Ratings			
Temperature measured on leads where lead exits molded package.		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

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