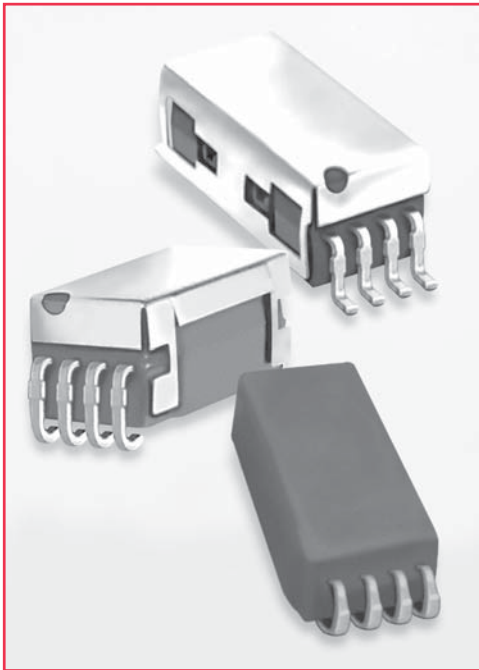


9800 Series/Surface Mount Reed Relays



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. 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. 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.

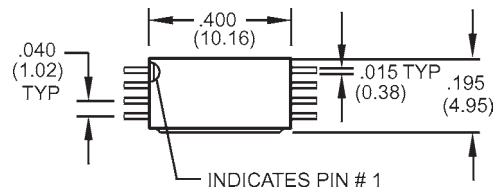
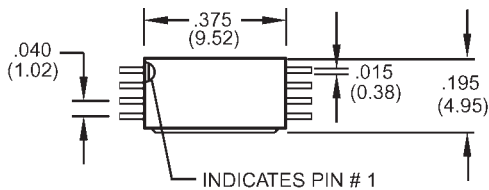
SERIES FEATURES

- ◆ 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
- ◆ Coaxial shield for 50 Ω impedance. Excellent for RF and Fast Rise Time Pulse switching (up to 6 GHz)
- ◆ External Magnetic Shield

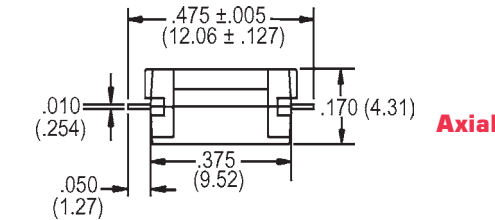
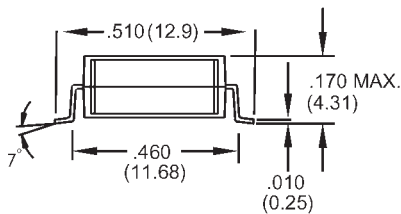
Model 9802

Dimensions in Inches (Millimeters)

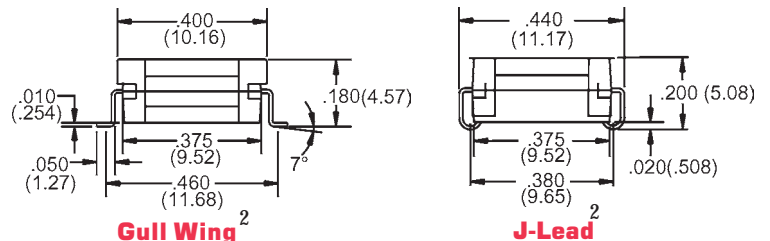
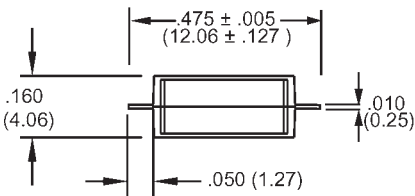
Models 9814 & 9852



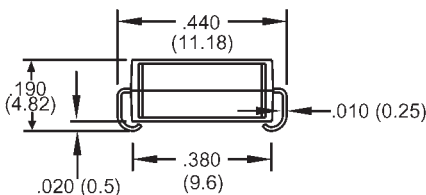
Gull Wing²



Axial



J-Lead²



Ordering Information

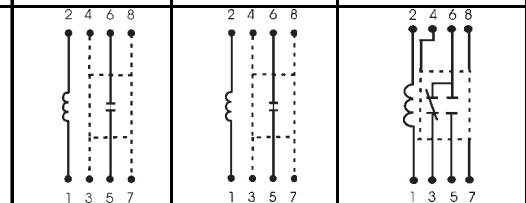
Part Number	9XXX-XX-XX	
Model Number	9802 9814 9852	Lead Style
Coil Voltage	03=3.3 volts (9814 & 9852)	00=Gull Wing
	05=5 volts	10=Axial
		20=J-Lead

9800 Series/Surface Mount Reed Relays

Model Number			9802	9814	9852
Parameters	Test Conditions	Units	1 Form A 50 Ω Coaxial	1 Form A 50 Ω Coaxial	1 Form C 50 Ω Coaxial
COIL SPECIFICATIONS					
N .C		DC	5	3.3 5	3.3 5
M .C		DC	6	4 6	4 6
C	+/- 10%, 25 °C	Ω	150	70 150	70 110
O	M O	DC - M	3.8	2.5 3.8	2.5 3.8
	M	DC - M	0.4	0.4 0.4	0.4 0.4
CONTACT RATINGS					
M DC/P AC			100	100	30
M DC/P AC		A	0.25	0.25	0.1
M DC/P AC		A	0.5	0.5	0.2
M DC/P AC			3	3	3
L E - 1	L 1.0 ,10 A	10 ⁶ O	250	1000	200 N/O 100N/C
(.)	50 ,10 A	Ω	0.125	0.125	0.150
D C	0.5 ,50 A	Ω	0.150	0.150	0.150
(.)	100 H ,1.5				
RELAY SPECIFICATIONS					
I ()	B I P 100 , 25 °C, 40% H	Ω	10 ¹²	10 ¹²	10 ⁹
C -	N	F	-	-	-
A O C	F	F	-	-	-
	G	F	0.2	0.2	1.0
O C C	N	F	-	-	-
	F	F	-	-	-
C C C	G	F	0.5	0.5	1.0
C	G	F	0.5	0.5	0.5
D ()	C O ,	F	-	-	-
	F				
O	B C	DC/ AC	200	200	200
	C	DC/ AC	1500	1500	1000
	C / C	DC/ AC	1500	1500	1000
	A N C		0.25	0.25	0.26
	30 H				
	-D		0.05	0.05	0.26

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 2.0Ω defines end of life.

² Surface mount component processing temperature: 438°F (226°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 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