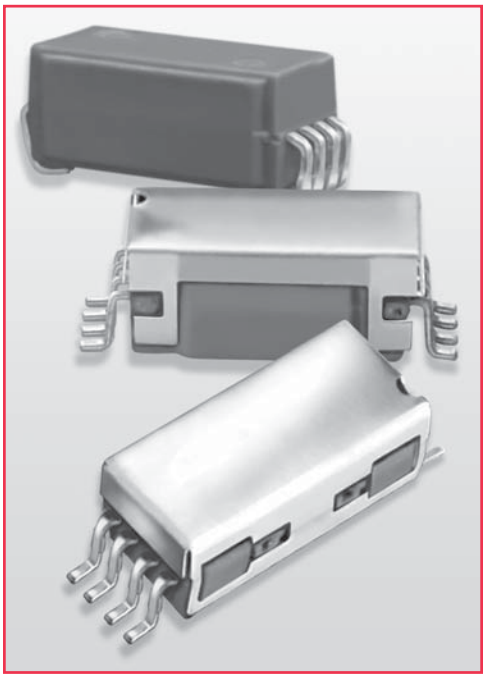
9800 Series/Surface Mount Reed Relays



SURFACE MOUNT REED RELAYS

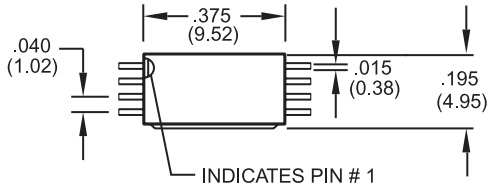
Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. The 9814 extends life at ATE loads 3X or more utilizing Coto's proprietary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

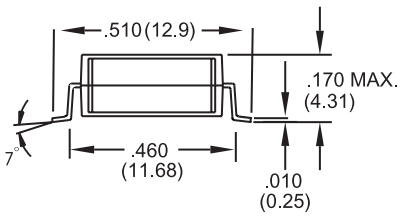
- Available in Axial, Gull wing and "J" lead configurations
- Tape and Reel packaging available
- High reliability, hermetically sealed contacts for long life
- High Insulation Resistance - 10^{12} Ω minimum (Form A)
- Coaxial shield for 50 Ω impedance
- 6.5 GHz bandwidth for RF and Pulse switching (fast rise time pulses)
- External Magnetic Shield

Model 9802

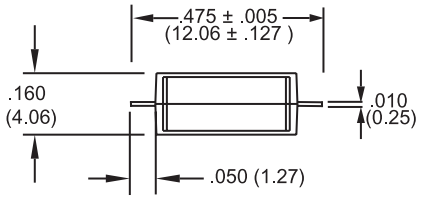
Dimensions in Inches (Millimeters)



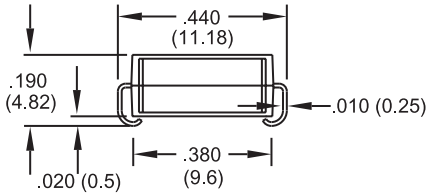
Gull Wing[2]



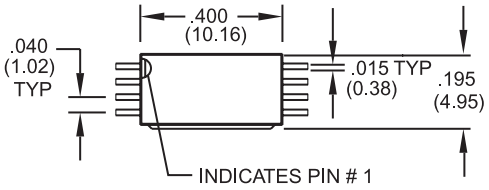
Axial[2]



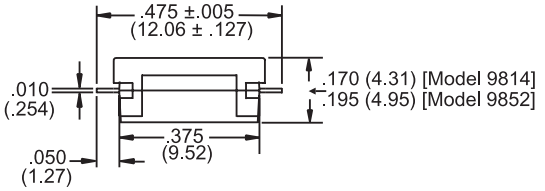
J-Lead[2]



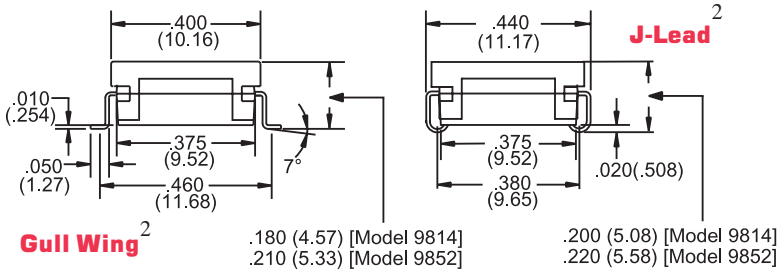
Models 9814 & 9852



Axial[2]



Gull Wing[2]



J-Lead[2]

Ordering Information

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

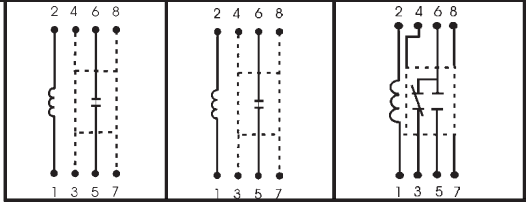
COTO TECHNOLOGY (USA) Tel: (401) 943-2686 / Fax (401) 942-0920

Rev. 06/10

9800 Series/Surface Mount Reed Relays

Model Number			9802	9814	9852[4]
Parameters	**Test Conditions**	**Units**	**1 Form A 50 Ω Coaxial**	**1 Form A 50 Ω Coaxial**	**1 Form C 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 (max. init.)	50mV, 10mA	Ω	0.125	0.125	0.150
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.150	0.150	0.150
RELAY SPECIFICATIONS					
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	x 10^{12}	10^{12}	10^9
Capacitance - Typical Across Open Contacts	No Shield	pF	-	-	-
	Shield Floating	pF	-	-	-
	Shield Guarding	pF	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, Shield Floating	pF	-	-	-
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	200	200	200
	Contacts to Shield	VDC/peak AC	1500	1500	1000
	Contacts/Shield to Coil	VDC/peak AC	1500	1500	1000
Operate Time - including bounce - Typical / Max	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.25	0.25	1.0
Release Time - Typical / Min	Zener-Diode Suppression[3]	msec.	0.05	0.05	1.0

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: 500°F / 260°C max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.

[3] Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

[4] Custom Coil Designs are available. Contact Coto.

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

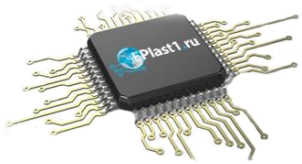
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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