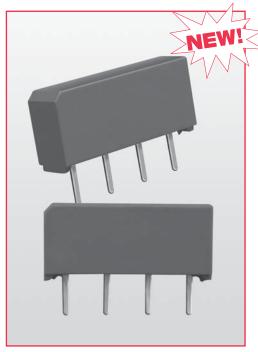
9094 High Power Miniature SIP Relay



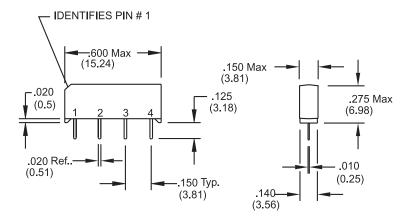
[>] High Power Miniature Molded SIP Reed Relays

The 9094 Series is the high power 20W version of Coto Technology's industry standard 9091 MiniSIP relay. The robust contacts and small size of the 9094 series make it ideal for ATE and other high-reliability test and measurement applications where high board density and long life are key requirements.

Series Features

- 9094 is a 20W SIP relay measuring .600" x .150" x .275"
- ◆ 40% less board space (LxW) than the 9001 series
- Optional coil suppression diode protects coil drive circuits
- UL File # E67117
- High insulation resistance, $10^{12} \Omega$ minimum
- Molded thermoset body on integral lead frame design
- High reliability, hermetically sealed contacts for long life

Model 9094



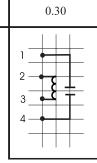
Dimensions in Inches (Millimeters)

Ordering Information				
Part Number <u>9094</u> - <u>XX</u> - <u>0X</u>				
Coil Voltage	General Options ²			
05=5 volts	0 = No Diode			
12=12 volts	1 = Diode			

9094 High Power Miniature SIP Relay

Model Number			9094 ²	\sum
Parameters	Test Conditions	Units	(20 Watt) 1 Form A SIP	
COIL SPECS.				V
Nom. Coil Voltage Max. Coil Voltage Coil Resistance Operate Voltage	+/- 10%, 25° C Must Operate by	VDC VDC Ω VDC - Max.	5 12 6.5 15.0 125 500 3.75 9.0	
Release Voltage	Must Release by	VDC - Min.	0.4 1.0	
CONTACT RATINGS Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy-Typical ¹ Static Contact Resistance (max. init.) Dynamic Contact Resistance (max. init.) RELAY SPECIFICATIONS	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 0.5V, 50mA at 100 Hz, 1.5 msec	Volts Amps Amps Watts x 10 ⁶ Ops. Ω	200 0.5 1.5 20 500 0.125 0.150	
Insulation Resistance (minimum) Capacitance - Typical Across Open Contacts Open Contact to Coil	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω pF pF	10 ¹² 0.1 2.0	
Dielectric Strength (minimum)	Between Contacts Contacts to Coil	VDC/peak AC VDC/peak AC	200 1500	
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5	
Release Time - Typical	Zener-Diode Suppression ³	msec.	0.30	
	I			1

Top View: Grid = .1"x.1" (2.54mm x 2.54mm)



Notes:

¹Consult factory for life expectancy at other switching loads. Resistance $>0.5\Omega$ defines end of life or failure to open.

²Optional diode is connected to pin #2 (+) and pin #3(-). Correct coil polarity must be observed. ³Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

Environmental Ratings:

Storage Temp: -35° C to $+100^{\circ}$ C; Operating Temp: -20° C to $+85^{\circ}$ C Solder Temp: 270°C max; 10 sec. max The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately $0.4\% / ^{\circ}$ C as the ambient temperature varies. Vibration: 20 G's to 2000 Hz; Shock: 50 G's