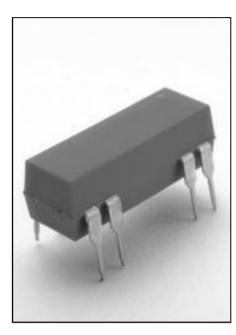
8000 Series/DIP Reed Relays

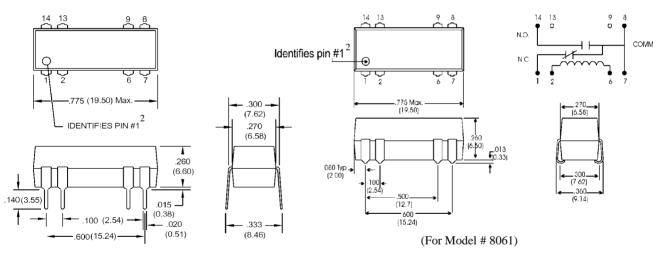


DIP REED RELAYS

The 8000 Series is ideally suited to the needs of Automated Test Equipment, Instrumentation, Data Acquisition, and Process Control requirements. The specification tables allow you to select the appropriate relay for your particular application. If your requirements differ from the selection options, please consult your local representative or Coto's Factory to discuss a custom reed relay.

8000 Series Features

- 14 Pin DIP Industry standard package.
- High Insulation Resistance $10^{12} \Omega$ offered on most models.
- High reliability, hermetically sealed contacts for long life. Proven to 500 million operations.
- Contact forms; 1A, 2A, 1B and 1C available.
- Surface mount version available.
- Molded thermoset body on integral lead frame design.
- Optional Electrostatic Shield for reducing capacitive coupling offered on some models.
- Coil suppression diode available upon request.
- High Voltage Breakdown versions available.



(For Model #'s 8001, 8002, 8021 & 8041)

Dimensions in Inches (Millimeters)

Ordering Information Part Number <u>80XX-XX-XX</u> 1		Ordering Information				
		Part Number <u>80XX-XX</u>	-XX			
Model Number	Diode Option ³	Model Number	Diode Option ³			
8001 8041 8061	0=No Diode 1=Diode	8002 8021	0=No Diode 1=Diode			
Coil Voltage	Shield Option ⁴	Coil Voltage	Shield Option ⁴			
05=5 volts	0=No Shield	05=5 volts	0=No Shield			
12=12 volts	1 == Electrostatic Shield	12=12 volts	1 = Electrostatic Shield			
	Catch Us on the Web! www.cotorelay.com	E-Mail us: sales@cotorelay.com				

8000 Series/DIP Reed Relays

Model Number Parameters	Test Conditions	Units	8001 1 Form A	8002 2 Form A	8021 1 Form B	8041 1 Form C	8061 1 Form C SMD
COIL SPECS. 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 15 500 500 3.8 9.6	5 12 6.5 15 200 500 3.8 9.6			
Release Voltage CONTACT RATINGS Switching Voltage	Must Release by Max DC/Peak AC Resist.	VDC - Min. Volts	0.5 1.0 200	0.5 1.0 200	0.5 1.0 200	0.5 1.0	0.5 1.0 100
Switching Current Carry Current Contact Rating	Max DC/Peak AC Resist. Max DC/Peak AC Resist. Max DC/Peak AC Resist. Max DC/Peak AC Resist.	Amps Amps Watts	0.5 1.0 10	0.5 1.0 10	0.5 1.0 10	0.25 0.5 3	0.25 0.5 3
Life Expectancy-Typical ¹ Static Contact Resistance (max. init.)	Signal Level 1.0V,10mA 50mV, 10mA	x 10 ⁶ Ops. Ω	500 0.150	500 0.150	500 0.150	100 0.200	100 0.200
Dynamic Contact Resistance (max. init.) RELAY	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.200	0.200	0.250	0.250
SPECIFICATIONS Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 ¹²	10 ¹²	10 ¹²	10 ¹⁰	10 ¹⁰
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	300 1500 1500	300 1500 1500	300 1500 1500	200 1500 1500	200 1500 1500
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5	0.5	0.5	1.0	1.0
Release Time - Typical	No Suppression Diode Suppression	msec. msec.	0.5 1.0	0.5 1.0	0.5 1.0	0.5 1.5	0.5 1.5
Dot stamped o	n top of relay refers to pin Grid=.1"x.1" (2.54m)						

* For SMD reed relays, maximum reflow soldering temperature is 221°C for one minute. If high temperature solder (95% Sn / 5% Sb) is used in the relay construction, the temperature limit is 226 °C for one minute. for through-hole relays (molded or potted), maximum wave solder temperature is 270 °C for 10 secs.

Notes:

- ¹Consult factory for life expectancy
- at other switching loads.
- ² Molded depression on top of relay refers to pin #1 location.
- ³ Optional coil suppression diode across pins 2(+) and 6(-).
- ⁴ Optional ES Shield is tied to pins 9 & 13.

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

COTO TECHNOLOGY 55 Dupont Drive, Providence, RI 02907-3105 / (401) 943-2686 Fax (401) 942-0920