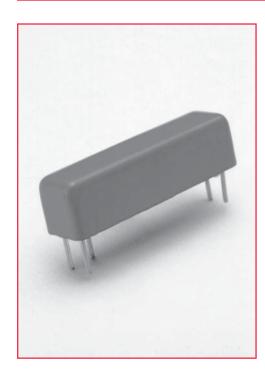
2200 Series Reed Relays

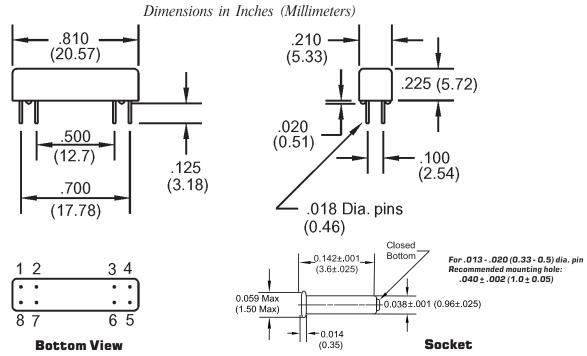


2200 Series Reed Relays

Ideally suited to the needs of Automated Test Equipment and RF requirements. The specification tables allow you to select the appropriate relay for your particular application. If your requirements differ, please consult your local representative or Coto's Factory.

2200 Series Features

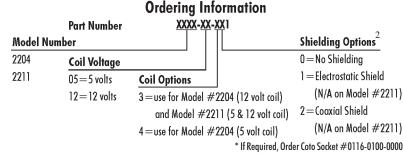
- ♦ Very small (0.17 in²), high reliability reed relays
- \bullet High Insulation Resistance 10^{12} Ω available with some models
- ♦ High speed switching compared to electromechanical relays
- Hermetically sealed contacts for long life
- Epoxy coated steel shell provides magnetic shielding
- Optional Electrostatic Shield for reducing capacitive coupling
- Optional Coaxial Shield for 50 Ω impedance and switching of fast rise time digital pulses offered on some models
- Relay models 2200-2301, 2200-2302, are ATE industry standards.
 Specifically engineered for OEM designs and maintenance of existing production fixtures



Note:

8

Model #'s 2200-2301 & 2200-2302 represent complete part numbers.



2200 Series Reed Relays

Model Number			2204	2211	2200-2301	2200-2302
Parameters	Test Conditions	Units	1 Form A	1 Form C	1 Form A Electrostatic Shield	1 Form A Coaxial Shield
COIL SPECS.						
Nom. Coil Voltage Coil Resistance	+/- 10%, 25° C	$VDC \ \Omega$	5 12 370 1500	5 12 230 1500	5 150	5 150
Operate Voltage Release Voltage	Must Operate by Must Release by	VDC - Max. VDC - Min.	3.8 9.0 0.4 1.0	3.8 9.0 0.4 1.0	3.6 0.5	3.6 0.5
CONTACT RATINGS						
Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy-Typical ¹	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	Volts Amps Amps Watts x 10 ⁶ Ops.	200 0.5 1.0 10 500	100 0.25 0.5 3 100	150 0.5 1.0 10 500	150 0.5 1.0 10 500
Rated Loads		$\times 10^6$ Ops.	5	5	5	5
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.100	0.150	0.150	0.150
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.200	0.200	0.200
RELAY SPECIFICATIONS						
Insulation Resistance (minimum)	Between all Isolated Pins .at 100V, 25°C, 40% RH	Ω	10 ¹²	10^{11}	10 ¹¹	10 ¹¹
Capacitance - Typical Across Open Contacts	Shield Floating Shield Guarding	pF pF	0.9 0.2	0.9 N/A	0.9 0.2	0.9 0.2
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	250 250 1500	200 N/A 1500	250 250 1500	250 250 1500
Operate Time - including bounce	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5 (typ.)	1.0 (typ.)	0.55 (max.)	0.55 (max.)
Release Time - Typical	Zener-Diode Suppression ³	msec.	0.1	2.0	0.1	0.1
Dot stamped or	5 4 6 3 7 2 8 1	5 4 6 3 7 2 8 1	5 4 6 3 7 2 8 1	5 4 6 3 7 2 8 1		

Notes:

¹Consult factory for life expectancy at other switching loads.

²Model 2204, pin #7 is tied to optional electrostatic shield, pins #6 & #7 are tied to optional coaxial shield.

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

Environmental Ratings:

Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85°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%/°C as the ambient temperature varies. Vibration: 20 G's to 2000 Hz; Shock: 50 G's