2200 Series Reed Relays

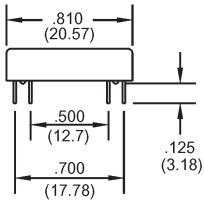


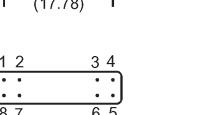
2200 Series Reed Relays

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.

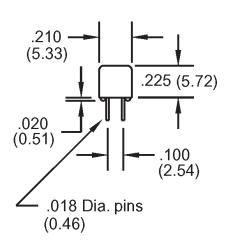
2200 Series Features

- ♦ Very small (0.17 in²), high reliability reed relays
- High Insulation Resistance $10^{12} \Omega$ 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
- ullet 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





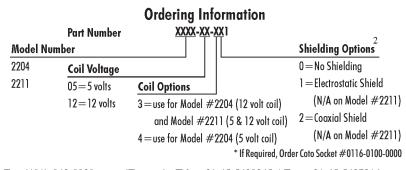
Bottom View



Dimensions in Inches (Millimeters)

Note:

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



2200 Series Reed Relays

Model Number Parameters	Test Conditions	Units	2204 ² 1 Form A	2211 1 Form C	2200-2301 1 Form A Electrostatic Shield	2200-2302 1 Form A Coaxial Shield
COIL SPECS.						
Nom. Coil Voltage Coil Resistance Operate Voltage Release Voltage	+/- 10%, 25° C Must Operate by Must Release by	VDC Ω VDC - Max. VDC - Min.	5 12 370 1500 3.8 9.0 0.4 1.0	5 12 230 1500 3.8 9.0 0.4 1.0	5 150 3.6 0.5	5 150 3.6 0.5
CONTACT RATINGS						
Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy-Typical ¹ Rated Loads	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. x 10 ⁶ Ops.	200 0.5 1.0 10 500 5	100 0.25 0.5 3 100 5	150 0.5 1.0 10 500 5	150 0.5 1.0 10 500 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	msec.	0.1	2.0	0.1	0.1
Top View: Dot stamped on top of relay refers to pin #1 location Grid = .1"x.1" (2.54mm x 2.54mm)			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.

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