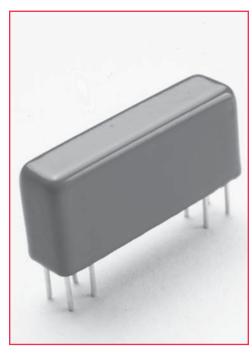
2300 Series Multi-Pole Reed Relays

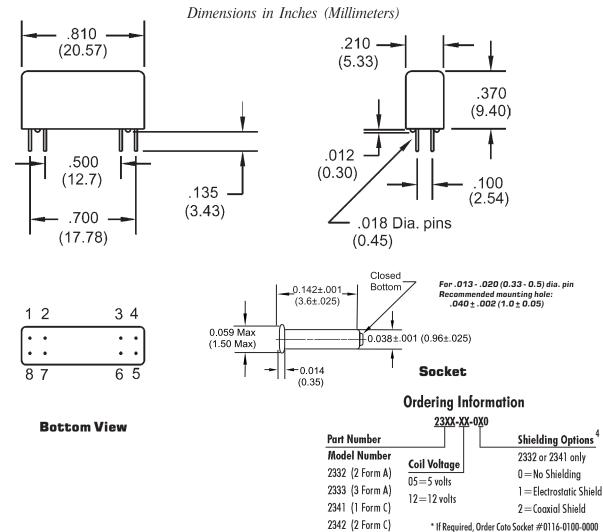


Multi-Pole Reed Relays

The Coto 2300 series is designed to offer the densest packaging available in a multi-pole reed relay. The size and footprint of the 2300 series complement the 2200 and 2900 series relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally closed contacts which are more reliable than the spring actuated 1 Form C reed switches. Custom pinouts as well as custom designs are available to meet particular applications. Special designs include 1 Form B, 2 Form B, latching, and high voltage relays.

2300 Series Features

- ♦ Smallest Multi-pole Relay: 0.056 sq. inches/pole (3 pole relay)
- ◆ Up to 3 Form A or 2 Form C Contacts
- Hermetically Sealed Contacts
- ♦ Long Life / High Reliability
- Magnetically Shielding Steel Shell
- Optional Electrostatic Shield (on most models)



2300 Series Multi-Pole Reed Relays

Model Number			2332	2333	2341 ^{3,5}	2342
Parameters	Test Conditions	Units	2 Form A	3 Form A	1 Form C	2 Form C
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 12 175 1000 3.8 9.0 0.4 1.0	5 12 175 1000 3.8 9.0 0.4 1.0	5 12 230 1000 3.8 9.0 0.4 1.0	5 12 175 1000 3.8 9.0 0.4 1.0
CONTACT RATINGS						
Switching Voltage Switching Current Carry Current Contact Rating Life Expectancy-Typical Static Contact Resistance (max. init.)	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	Volts Amps Amps Watts $x 10^6 ext{ Ops.}$	200 0.5 1.5 10 500	200 0.5 1.5 10 500 0.150	200 0.5 1.5 10 500 0.150	100 0.25 0.5 3 100 0.200
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.200	0.200	0.250
RELAY SPECIFICATIONS						
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 ¹²	10 ¹²	10 ¹²	10 ⁹
Capacitance - Typical Across Open Contacts	No Shield Shield Guarding	pF pF	0.8 0.2	0.8 N/A	1.7 0.7	2.0 N/A
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	250 1000 1000	250 N/A 1000	250 1000 1000	200 N/A 1000
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5	0.5	0.5	1.5
Release Time - Typical	Zener-Diode Suppression ²	msec.	0.15	0.15	0.5	2.0
Top View ⁴ : Dot stamped on top of relay refers to pin #1 location Grid = .1"x.1" (2.54mm x 2.54mm)			5 4 6 3	5 4 6 3 7 2 8 1	5 4 6 3 7 2 8 1	5 6 3

Notes:

- ¹ Consult factory for life expectancy at other switching loads.
- ² Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.
- ³ Break-before-make action on Form C Model 2341 is not guaranteed. Consult factory if break-before-make is required.
- ⁴ Electrostatic shield is connected to pin #6. Coaxial shield is connected to pins #6 and #7.
- ⁵ This relay is polarity sensitive. Pin #3 MUST be positive.

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