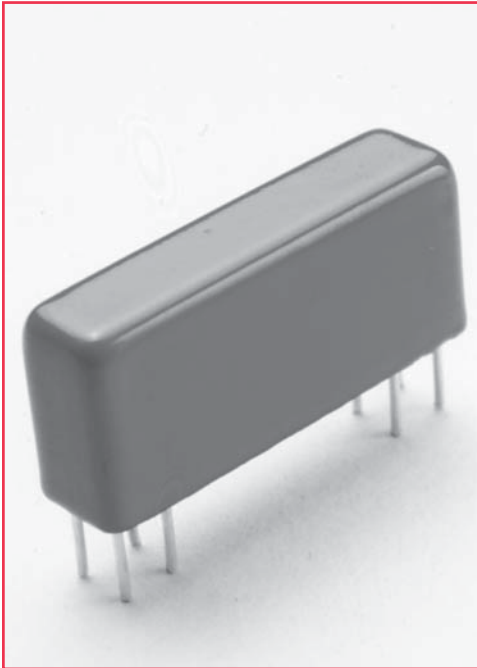


2300 Series Multi-Pole Reed Relays



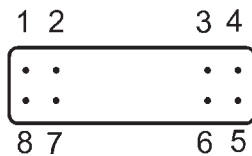
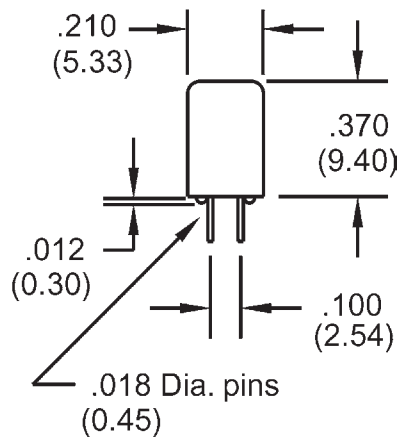
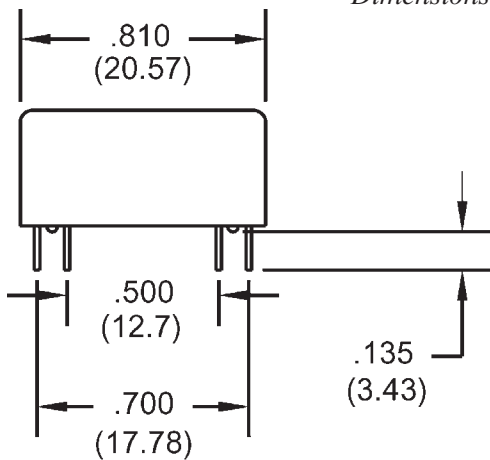
Multi-Pole Reed Relays

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 pin-outs 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.

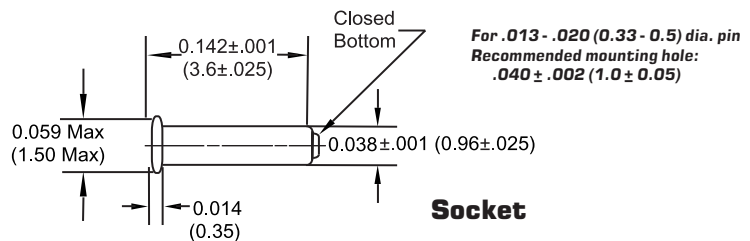
2300 Series Features

- ◆ 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)

Dimensions in Inches (Millimeters)



Bottom View



Socket

Ordering Information

| Part Number | Coil Voltage | Shielding Options ⁴ |
|-----------------|--------------|--------------------------------|
| Model Number | | 2332 or 2341 only |
| 2332 (2 Form A) | 05=5 volts | 0=No Shielding |
| 2333 (3 Form A) | 12=12 volts | 1=Electrostatic Shield |
| 2341 (1 Form C) | | 2=Coaxial Shield |
| 2342 (2 Form C) | | |

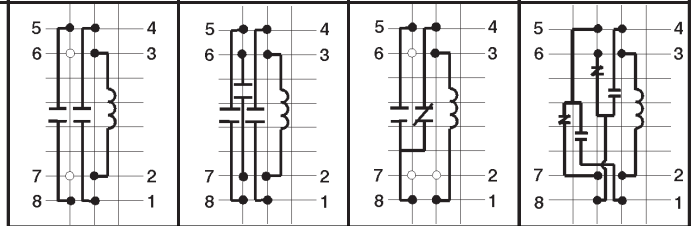
* If Required, Order Coto Socket #0116-0100-0000

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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 | | VDC | 5 12 | 5 12 | 5 12 | 5 12 |
| Coil Resistance | +/- 10%, 25° C | Ω | 175 1000 | 175 1000 | 230 1000 | 175 1000 |
| Operate Voltage | Must Operate by | VDC - Max. | 3.8 9.0 | 3.8 9.0 | 3.8 9.0 | 3.8 9.0 |
| Release Voltage | Must Release by | VDC - Min. | 0.4 1.0 | 0.4 1.0 | 0.4 1.0 | 0.4 1.0 |
| CONTACT RATINGS | | | | | | |
| Switching Voltage | Max DC/Peak AC Resist. | Volts | 200 | 200 | 200 | 100 |
| Switching Current | Max DC/Peak AC Resist. | Amps | 0.5 | 0.5 | 0.5 | 0.25 |
| Carry Current | Max DC/Peak AC Resist. | Amps | 1.5 | 1.5 | 1.5 | 0.5 |
| Contact Rating | Max DC/Peak AC Resist. | Watts | 10 | 10 | 10 | 3 |
| Life Expectancy-Typical ¹ | Signal Level 1.0V, 10mA | x 10 ⁶ Ops. | 500 | 500 | 500 | 100 |
| Static Contact Resistance (max. init.) | 50mV, 10mA | Ω | 0.150 | 0.150 | 0.150 | 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 | pF | 0.8 | 0.8 | 1.7 | 2.0 |
| | Shield Guarding | pF | 0.2 | N/A | 0.7 | N/A |
| Dielectric Strength (minimum) | Between Contacts | VDC/peak AC | 250 | 250 | 250 | 200 |
| | Contacts to Shield | VDC/peak AC | 1000 | N/A | 1000 | N/A |
| | Contacts/Shield to Coil | VDC/peak AC | 1000 | 1000 | 1000 | 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 View⁴:
Dot stamped on top of relay refers to pin #1 location
Grid = .1"x.1" (2.54mm x 2.54mm)



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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