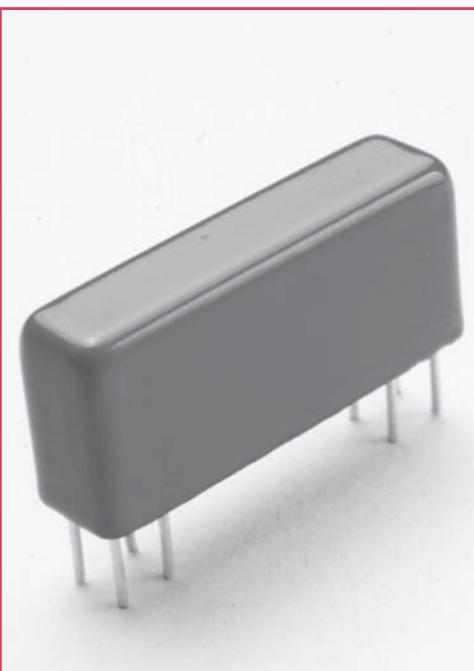


2300 Series Multi-Pole Reed Relays

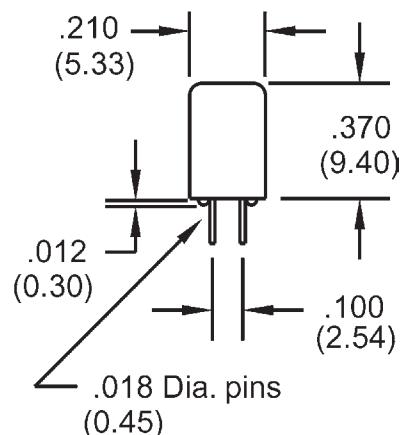
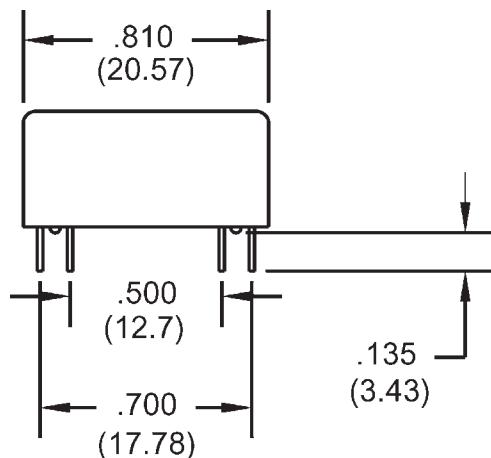


Multi-Pole Reed Relays

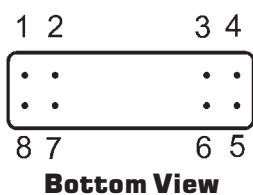
The Coto 2300 series is designed to offer the densest packaging available in a multipole reed relay. The size and footprint of the 2300 series complement the 2200 and 2900 series relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally 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 Multipole 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

Ordering Information

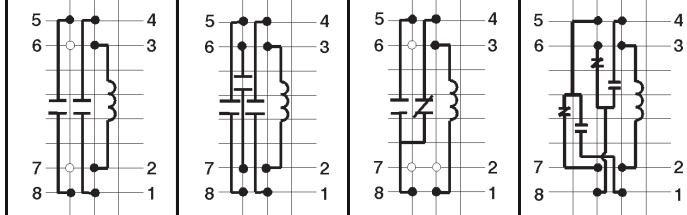
Part Number	23XX-XX-0X0	Shielding Options ⁴
Model Number		
2332 (2 Form A)	05=5 volts	2332 or 2341 only
2333 (3 Form A)	12=12 volts	0=No Shielding
2341 (1 Form C)		1=Electrostatic Shield
2342 (2 Form C)		2=Coaxial Shield
		* If Required, Order Coto Socket #0116-0101-0000

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	No Shield	pF	0.8		0.8		1.7		2.0	
Across Open Contacts	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 View ⁴:

Dot stamped on top of relay refers to pin #1 location
Grid = .1"x.1" (2.54mm x 2.54mm)



Notes:

¹ Consult factory for life expectancy at other switching loads.

² Release time is specified with a zener diode suppression circuit consisting of a 20 V zener diode in series with a 1N4148, connected in parallel with the 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