

2300 SERIES MULTI-POLE REED RELAYS



2300 Series Multi-Pole Reed Relays

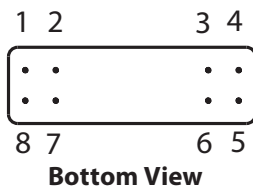
The Coto 2300 series is designed to offer the densest packaging available in a multi-pole reed relay. The size and footprint of the 2300 series complement the 2200 & 2900 series relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally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

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 models 2332 & 2341)
- ▶ RoHS compliant

DIMENSIONS

in Inches (Millimeters)



Ordering Information

Part Number **23XX-XX-0X0**

Model Number

2332 (2 Form A)
 2333 (3 Form A)
 2341 (1 Form C)
 2342 (2 Form C)

Coil Voltage

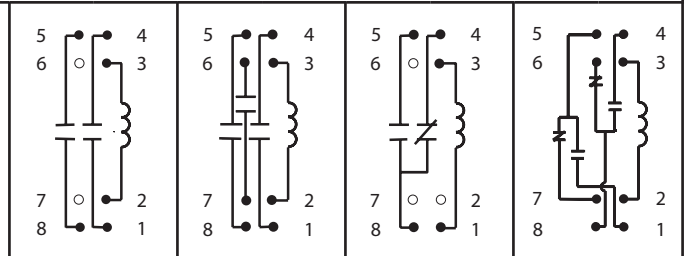
05=5 volts
 12=12 volts

Shielding Options³

2332 or 2341 only
 0=No Shielding
 1=Electrostatic Shield
 2=Coaxial Shield

| MODEL NUMBER | | | 2332 | 2333 | 2341 ^{2,4} | 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 | | msec. | 0.15 | 0.15 | 0.5 | 2.0 |

Top View³:
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. Resistance >0.5Ω defines end of life or failure to open.
- ² Break-before-make action on Form C Model 2341 is not guaranteed. Consult factory if break-before-make is required.
- ³ Electrostatic shield (2332 & 2341 only) is connected to pin #6. Coaxial shield is connected to pins #6 and #7.
- ⁴ 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
All electrical parameters measured at 25°C unless otherwise specified.
Vibration: 20 G's to 2000 Hz; Shock: 50 G's

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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