

5500 Series/High Voltage Reed Relays

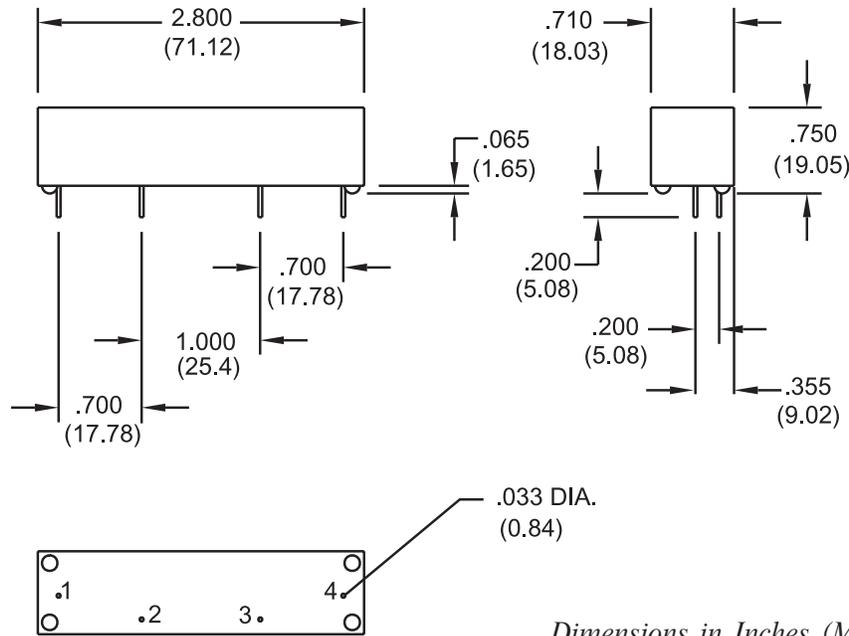


High Voltage Reed Relays

The 5500 Series High Voltage Reed Relays are ideally suited to the needs of Instrumentation, Industrial Process Controls and General Purpose requirements. The specification tables allow you to select the appropriate relay for your particular application. Applications include medical and hipot test instruments, and cable test equipment. If your requirements differ, please consult your local representative or Coto's Factory.

5500 Series Features

- ◆ High Dielectric Strength - 10,000 Volts isolation across contacts
- ◆ High Contact Rating - 200 Watts
- ◆ Hermetically sealed Tungsten contacts for long life
- ◆ Magnetic Shield standard
- ◆ Custom lead terminations and packages available



Dimensions in Inches (Millimeters)

Bottom View

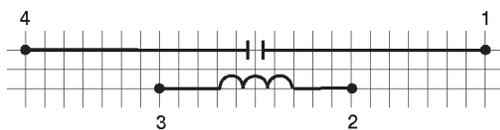
Ordering Information

| Part Number | XXXX-XX-1 | Coil Voltage |
|-------------|-----------|--------------|
| 5501 | 5502 | 05=5 volts |
| 5503 | 5504 | 12=12 volts |
| | | 24=24 volts |

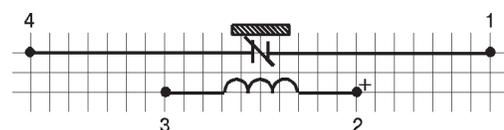
5500 Series/High Voltage Reed Relays

| Model Number | | | 5501 | 5502 ² | 5503 | 5504 ² |
|---|--|----------------------------|---------------------------------------|---------------------------------------|-------------------------------|-------------------------------|
| Parameters | Test Conditions | Units | 1 Form A High Voltage Isolation | 1 Form B High Voltage Isolation | 1 Form A Load Switching | 1 Form B Load Switching |
| COIL SPECS. | | | | | | |
| Nom. Coil Voltage | | VDC | 5 12 24 | 5 12 24 | 5 12 24 | 5 12 24 |
| Max. Coil Voltage | | VDC | 6.5 15 30 | 6.5 15 30 | 6.5 15 30 | 6.5 15 30 |
| Coil Resistance | +/- 10%, 25° C | Ω | 40 175 575 | 40 175 575 | 40 175 575 | 40 175 575 |
| Operate Voltage | Must Operate by | VDC - Max. | 3.75 9.0 18.0 | 3.75 9.0 18.0 | 3.75 9.0 18.0 | 3.75 9.0 18.0 |
| Release Voltage | Must Release by | VDC - Min. | 0.5 1.0 2.0 | 0.5 1.0 2.0 | 0.5 1.0 2.0 | 0.5 1.0 2.0 |
| CONTACT RATINGS | | | | | | |
| Switching Voltage | Max DC/Peak AC Resist. | Volts | 7500 | 7500 | 3500 | 3500 |
| Switching Current | Max DC/Peak AC Resist. | Amps | 3.0 | 3.0 | 3.0 | 3.0 |
| Carry Current | Max DC/Peak AC Resist. | Amps | 5.0 | 5.0 | 5.0 | 5.0 |
| Contact Rating | Max DC/Peak AC Resist. | Watts | 50 | 50 | 200 | 200 |
| Life Expectancy-Typical ¹ | Signal Level 1.0V, 1mA | x 10 ⁶ Ops. | 100 | 100 | 100 | 100 |
| Static Contact Resistance (max. init.) | 50mV, 10mA | Ω | 0.080 | 0.080 | 0.200 | 0.200 |
| RELAY SPECIFICATIONS | | | | | | |
| Insulation Resistance (minimum) | Between all Isolated Pins at 100V, 25°C, 40% RH | Ω | x 10 ¹⁰ | x 10 ¹⁰ | x 10 ¹⁰ | x 10 ¹⁰ |
| Capacitance - Typical Across Open Contacts | | pF | 1.5 | 1.5 | 1.5 | 1.5 |
| Dielectric Strength (minimum) | Between Contacts Contacts to Coil | VDC/peak AC VDC/peak AC | 10,000 10,000 | 10,000 10,000 | 7500 10,000 | 7500 10,000 |
| Operate Time - including bounce - Typical | At Nominal Coil Voltage, 30 Hz Square Wave | msec. | 3.0 | 3.0 | 3.0 | 3.0 |
| Release Time - Typical | Zener-Diode Suppression ³ | msec. | 3.0 | 3.0 | 3.0 | 3.0 |

Top View: Grid = .1"x.1" (2.54mm x 2.54mm)



5501, 5503



5502, 5504

Notes:

¹Consult factory for life expectancy at other switching loads.

²This relay contains a bias magnet. Correct coil polarity must be observed. Models 5502 and 5504 susceptible to magnetic interaction due to bias internal magnet.

³Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

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

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

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9