

2200 SERIES REED RELAYS

2200 Series Reed Relays

Ideally suited to the needs of Automated Test Equipment and RF requirements. The specification tables allow you to select the appropriate relay for your particular application. If your requirements differ, please consult your local representative or Coto's Factory.

2200 Series Features

- ▶ Very small footprint (0.17 in²), high reliability reed relays
- ▶ High Insulation Resistance - 10¹² Ω available with model 2204
- ▶ High speed switching compared to electromechanical relays
- ▶ Hermetically sealed contacts for long life
- ▶ Epoxy coated steel shell provides magnetic shielding
- ▶ Optional Electrostatic Shield for reducing capacitive coupling
- ▶ Optional Coaxial Shield for 50Ω impedance and switching of fast rise time digital pulses offered on Form A
- ▶ Relay models 2200-2301, 2200-2302 are ATE industry standards
- ▶ Specifically engineered for OEM designs and maintenance of existing production fixtures
- ▶ RoHS compliant



DIMENSIONS

in Inches (Millimeters)



NOTE

- ▶ Model #'s 2200-2301 & 2200-2302 represent complete part numbers.

Ordering Information

| Part Number | XXXX-XX-XX1 | Shielding Options ² |
|--------------|-------------|---|
| Model Number | | 0=No Shielding |
| 2204 | | 1=Electrostatic Shield (N/A on Model #2211) |
| 2211 | | 2=Coaxial Shield (N/A on Model #2211) |
| Coil Voltage | | Coil Options |
| 05=5 volts | | 3=use for Model #2204 (12 volt coil) and Model #2211 (5 & 12 volt coil) |
| 12=12 volts | | 4=use for Model #2204 (5 volt coil) |

| MODEL NUMBER | | | 2204 | 2211 | 2200-2301 | 2200-2302 |
|---|--|------------------------|------------------|------------------|----------------------------------|----------------------------|
| Parameters | Test Conditions | Units | 1 Form A | 1 Form C | 1 Form A Electrostatic Shield | 1 Form A Coaxial Shield |
| COIL SPECS. | | | | | | |
| Nom. Coil Voltage | | VDC | 5 12 | 5 12 | 5 | 5 |
| Coil Resistance | +/- 10%, 25° C | Ω | 370 1500 | 230 1500 | 150 | 150 |
| Operate Voltage | Must Operate by | VDC - Max. | 3.8 9.0 | 3.8 9.0 | 3.6 | 3.6 |
| Release Voltage | Must Release by | VDC - Min. | 0.4 1.0 | 0.4 1.0 | 0.5 | 0.5 |
| CONTACT RATINGS | | | | | | |
| Switching Voltage | Max DC/Peak AC Resist. | Volts | 200 | 100 | 150 | 150 |
| Switching Current | Max DC/Peak AC Resist. | Amps | 0.5 | 0.25 | 0.5 | 0.5 |
| Carry Current | Max DC/Peak AC Resist. | Amps | 1.0 | 0.5 | 1.0 | 1.0 |
| Contact Rating | Max DC/Peak AC Resist. | Watts | 10 | 3 | 10 | 10 |
| Life Expectancy-Typical ¹ | Signal Level 1.0V, 10mA | x 10 ⁶ Ops. | 500 | 100 | 500 | 500 |
| Rated Loads | | x 10 ⁶ Ops. | 5 | 5 | 5 | 5 |
| Static Contact Resistance (max. init.) | 50mV, 10mA | Ω | 0.100 | 0.150 | 0.150 | 0.150 |
| Dynamic Contact Resistance (max. init.) | 0.5V, 50mA at 100 Hz, 1.5 msec | Ω | 0.200 | 0.200 | 0.200 | 0.200 |
| RELAY SPECIFICATIONS | | | | | | |
| Insulation Resistance (minimum) | Between all Isolated Pins at 100V, 25°C, 40% RH | Ω | 10 ¹² | 10 ¹¹ | 10 ¹¹ | 10 ¹¹ |
| Capacitance - Typical Across Open Contacts | Shield Floating | pF | 0.9 | 0.9 | 0.9 | 0.9 |
| | Shield Guarding | pF | 0.2 | N/A | 0.2 | 0.2 |
| Dielectric Strength (minimum) | Between Contacts | VDC/peak AC | 250 | 200 | 250 | 250 |
| | Contacts to Coil | VDC/peak AC | 250 | N/A | 250 | 250 |
| | Contacts/Shield to Coil | VDC/peak AC | 1500 | 1500 | 1500 | 1500 |
| Operate Time - including bounce | At Nominal Coil Voltage, 30 Hz Square Wave | msec. | 0.5 (typ.) | 1.0 (typ.) | 0.55 (max.) | 0.55 (max.) |
| Release Time - Typical | | msec. | 0.1 | 2.0 | 0.1 | 0.1 |

Top View:
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 Model 2204, pin #7 is tied to optional electrostatic shield, pins #6 & #7 are tied to optional coaxial shield.

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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