5500 Series/High Voltage Reed Relays 查询"1315360"供应商



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.
- Low contact resistance 0.030 Ω typical.
- Magnetic Shield standard.
- Custom lead terminations and packages available.



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Model Number			5501 1 Form A High Voltage				550	2 ²	5503			5504 ²		
Parameters	Test Conditions	Units				1 Form B High Voltage			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	10 ¹⁰		10^{10}			10^{10}			10^{10}			
Capacitance - Typical Across Open Contacts		pF	1.5			1.5			1.5			1.5		
Dielectric Strength	Between Contacts	VDC/peak AC	10,000			10,000			7500			7500		
(minimum)	Contacts to Coil	VDC/peak AC	10,000			10,000			10,000			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	msec.	3.0				3.0		3.0			3.0		

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



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.

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