2970 Series Reed Relays for 125°C

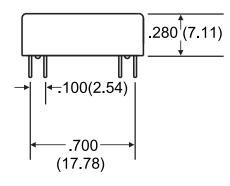


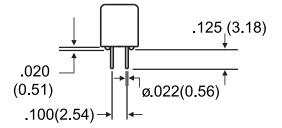
2970 Series Reed Relays

Ideally suited to the needs of Automated Test Equipment and RF requirements. The 2970 series offers a 1 Form A and 1 Form C coaxial relay for special 125°C testing environments. If your requirements differ, please consult your local representative or Coto's Factory.

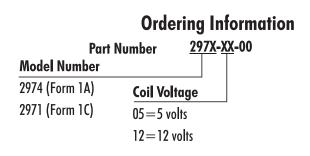
2970 Series Features

- Very small (0.20 in^2) , high reliability reed relays.
- High Insulation Resistance.
- Hermetically sealed contacts for long life.
- Epoxy coated steel shell provides magnetic shielding.
- Coaxial Shield for 50 Ω impedance and switching of fast rise time digital pulses.
- 125°C Operating Temperature.

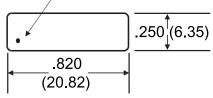




Dimensions in Inches (Millimeters)



IDENTIFIES PIN #1 -



Top View

2970 Series Reed Relays for 125°C

Indel Number Parameters OIL RESISTANCE om. Coil Voltage oil Resistance operate Voltage elease Voltage	Test Conditions	Units	1 Form A	2971 ²
om. Coil Voltage oil Resistance oerate Voltage elease Voltage	I			1 Form C
bil Resistance perate Voltage elease Voltage				
perate Voltage elease Voltage		VDC	5 12	5 12
elease Voltage	+/- 10%, 25° C	Ω	370 1500	230 1500
	Must Operate by	VDC - Max.	3.8 9.0	3.8 9.0
	Must Release by	VDC - Min.	0.4 1.0	0.4 1.0
ONTACT RATING				
vitching Voltage	Max DC/Peak AC Resist.	Volts	200	150
vitching Current	Max DC/Peak AC Resist.	Amps	0.5	0.25
urry Current	Max DC/Peak AC Resist.	Amps	1.5	1.0
ontact Rating	Max DC/Peak AC Resist.	Watts	10	3
fe Expectancy-Typical ¹	Signal Level 1.0V, 10mA	x 10 ⁶ Ops.	500	100
atic Contact				
sistance (max. init.)	50mV, 10mA	Ω	0.100	0.150
vnamic Contact	0.5V, 50mA	Ω	0.000	0.000
sistance (max. init.)	at 100 Hz, 1.5 msec	77	0.200	0.200
LAY SPECIFICATIONS				
ulation Resistance	Between all Isolated Pins at 100V, 25°C, 40% RH		1012	toll
nimum)		Ω	10 ¹²	10^{11}
pacitance - Typical	Shield Floating	pF	1.0	2.0
ross Open Contacts	Shield Guarding	pF	0.3	1.0
electric Strength	Between Contacts	VDC/peak AC	350	200
iinimum)	Contacts to Shield	VDC/peak AC	350	200
	Contacts/Shield to Coil	VDC/peak AC	1500	1500
erate Time - including	At Nominal Coil Voltage,	msec.	0.5	1.0
unce - Typical	30 Hz Square Wave	msee.	0.5	1.0
lease Time - Typical	Zener-Diode Suppression ³	msec.	0.1	2.0
		Top View:	5	5

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

Notes:

¹Consult factory for life expectancy at other switching loads. ² Pins #6 & #7 are tied to coaxial shield. ³Consists of 56V Zener diode and 1N4148 diode in series,

connected in parallel with coil.

Environmental Ratings:

Storage Temp: -35° C to $+125^{\circ}$ C; Operating Temp: -20° C to $+125^{\circ}$ 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