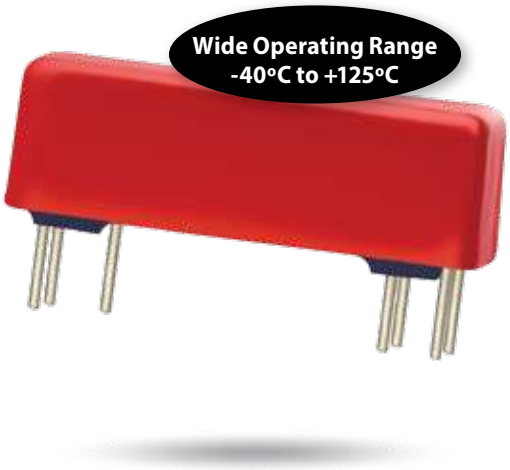
2970 SERIES REED RELAYS FOR -40°C TO 125°C



2970 Series Reed Relays

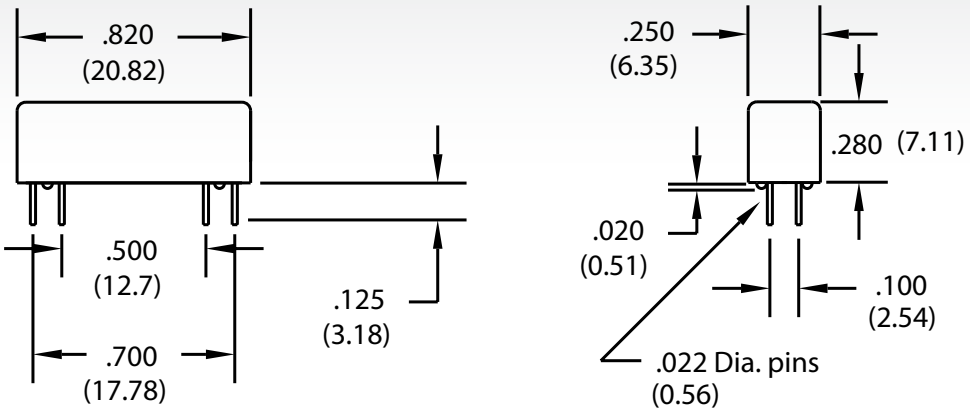
Ideally suited to the needs of Automated Test Equipment and Instrumentation. The 2970 series offers a 1 Form A and 1 Form C coaxial relay for special -40°C to +125°C testing environments. If your requirements differ, please consult your local representative or Coto's Factory.

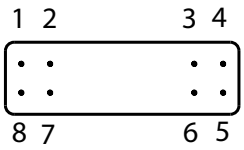
2970 Series Features

- Coaxial shield for 50Ω impedance
- High Insulation Resistance
- Hermetically sealed contacts for long life
- Epoxy coated steel shell provides magnetic shielding
- Wide operating temperature range -40°C to +125°C
- RoHS compliant

DIMENSIONS

in Inches (Millimeters)





Bottom View

Ordering Information

Part Number 297X-XX-00

Model Number

2974 (Form 1A)
2971 (Form 1C)

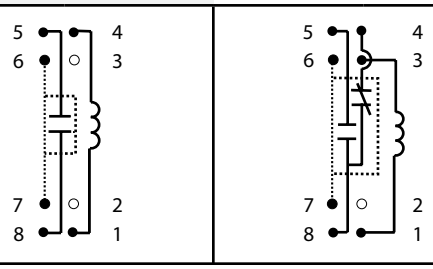
Coil Voltage

05=5 volts
12=12 volts

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MODEL NUMBER			2974[2]	2971[2]
PARAMETERS	**TEST CONDITIONS**	**UNITS**	**1 FORM A**	**1 FORM C**
COIL SPECS.				
Nom. Coil Voltage		VDC	5 12	5 12
Coil Resistance	+/- 10%, 25° C	Ω	230 1500	230 1500
Operate Voltage	Must Operate by	VDC - Max.	2.5 6.7	2.5 6.7
Release Voltage	Must Release by	VDC - Min.	0.4 1.0	0.4 1.0
CONTACT RATINGS				
Switching Voltage	Max DC/Peak AC Resist.	Volts	200	150
Switching Current	Max DC/Peak AC Resist.	Amps	0.5	0.25
Carry Current	Max DC/Peak AC Resist.	Amps	1.5	1.0
Contact Rating	Max DC/Peak AC Resist.	Watts	10	3
Life Expectancy-Typical[1]	Signal Level 1.0V, 10mA	x 10^6 Ops.	500	100
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.100	0.150
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.200
RELAY SPECIFICATIONS				
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10^{12}	10^{10}
Capacitance - Typical Across Open Contacts	Shield Floating Shield Guarding	pF pF	1.0 0.3	2.0 1.0
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	350 350 1500	200 200 1500
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5	1.0
Release Time - Typical		msec.	0.1	2.0

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 2974 & 2971, pins #6 & #7 are tied to coaxial shield.

Environmental Ratings:

Storage Temp: -40°C to +125°C; *Operating Temp:* -40°C to +125°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

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