Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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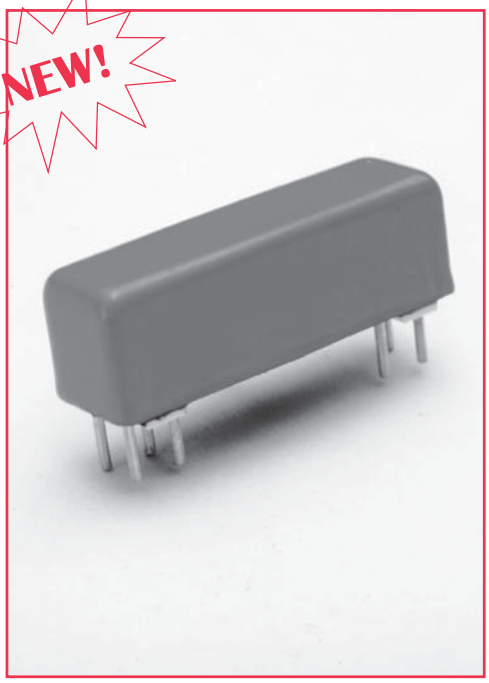
2970 Series Reed Relays for 125°C

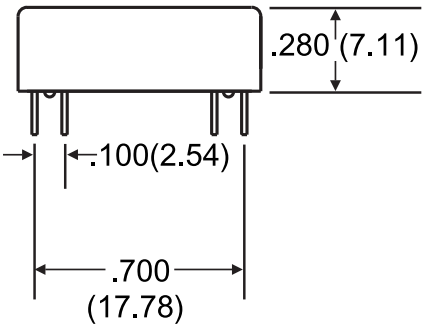


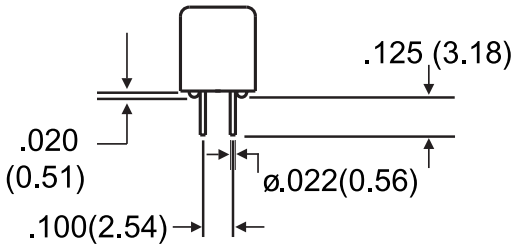
2970 Series Reed Relays

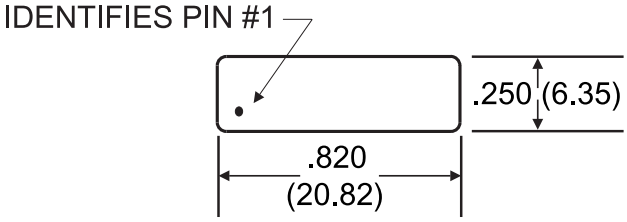
Ideally suited to the needs of Automated Test Equipment and RF requirements. The 2970 series offers a 1 Form A and 1 Form C coaxial relay for special 125°C testing environments. If your requirements differ, please consult your local representative or Coto's Factory.

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.







Top View

Dimensions in Inches (Millimeters)

Ordering Information

Part Number 297X-XX-00

Model Number

2974 (Form 1A)

2971 (Form 1C)

Coil Voltage

05 = 5 volts

12 = 12 volts

COTO TECHNOLOGY (USA) Tel: (401) 943-2686 / Fax (401) 942-0920

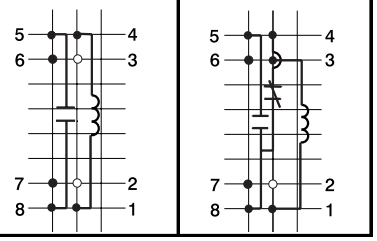
Rev. 09/10

2970 Series Reed Relays for 125°C

NEW!

Model Number			2974 [2]		2971 [2]	
Parameters	**Test Conditions**	**Units**	**1 Form A**		**1 Form C**	
COIL RESISTANCE						
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.	3.8	9.0	3.8	9.0
Release Voltage	Must Release by	VDC - Min.	0.4	1.0	0.4	1.0
CONTACT RATING						
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^{11}	
Capacitance - Typical	Shield Floating	pF	1.0		2.0	
Across Open Contacts	Shield Guarding	pF	0.3		1.0	
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	350		200	
	Contacts to Shield	VDC/peak AC	350		200	
	Contacts/Shield to Coil	VDC/peak AC	1500		1500	
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5		1.0	
Release Time - Typical	Zener-Diode Suppression [3]	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] Pins #6 & #7 are tied to coaxial shield.
[3]Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

Environmental Ratings:
Storage Temp: -35°C to +125°C;
Operating Temp: -20°C to +125°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