

# 2270 SERIES REED RELAYS FOR 125°C

**NEW!**



## 2270 Series Reed Relays

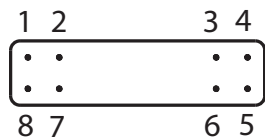
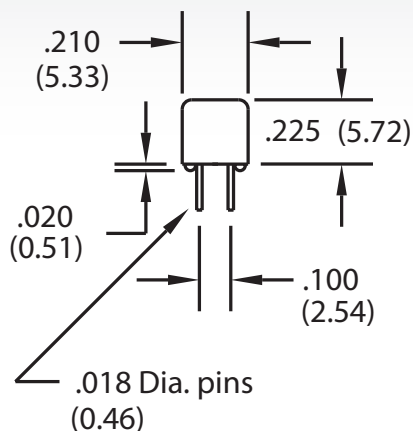
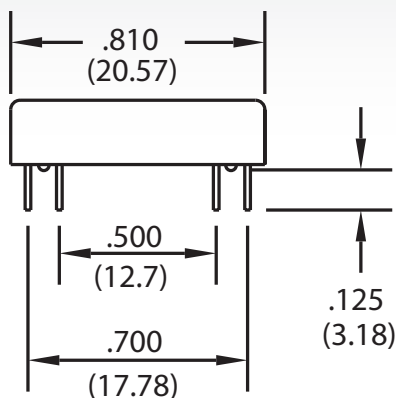
Ideally suited to the needs of Automated Test Equipment and instrumentation requiring 125°C operation. If your requirements differ, please consult your local representative or Coto's Factory.

## 2270 Series Features

- ▶ Very small footprint (0.17 in<sup>2</sup>), high reliability reed relays
- ▶ High Insulation Resistance - 10<sup>12</sup> Ω available with model 2274
- ▶ Long Life/High Reliability
- ▶ Hermetically sealed contacts for long life
- ▶ Epoxy coated steel shell provides magnetic shielding
- ▶ 125°C Operating Temperature
- ▶ Specifically engineered for OEM designs and maintenance of existing production fixtures
- ▶ RoHS compliant

## DIMENSIONS

*in Inches (Millimeters)*



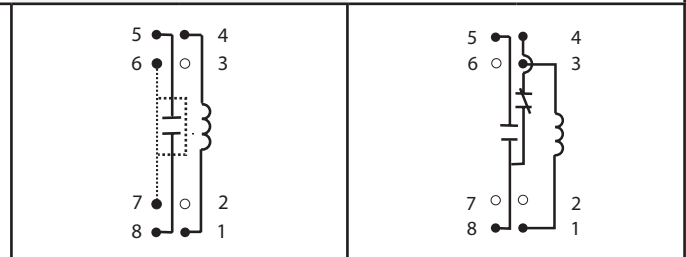
**Bottom View**

## Ordering Information

Model Number	Part Number	Shielding Options <sup>2</sup>
2274	XXXX-XX-0X1	0=No Shielding (2271 only)
2271	Coil Voltage	2=Coaxial Shield (2274 only)
	05=5 volts	
	12=12 volts	

MODEL NUMBER			2274	2271
Parameters	Test Conditions	Units	1 Form A	1 Form C
<b>COIL SPECS.</b>				
Nom. Coil Voltage		VDC	5 12	5 12
Coil Resistance	+/- 10%, 25° C	Ω	100 550	100 550
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
<b>CONTACT RATINGS</b>				
Switching Voltage	Max DC/Peak AC Resist.	Volts	200	100
Switching Current	Max DC/Peak AC Resist.	Amps	0.5	0.25
Carry Current	Max DC/Peak AC Resist.	Amps	1.0	0.5
Contact Rating	Max DC/Peak AC Resist.	Watts	10	3
Life Expectancy-Typical <sup>1</sup>	Signal Level 1.0V, 10mA	x 10 <sup>6</sup> Ops.	500	100
Rated Loads		x 10 <sup>6</sup> Ops.	5	5
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
<b>RELAY SPECIFICATIONS</b>				
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 <sup>12</sup>	10 <sup>11</sup>
Capacitance - Typical Across Open Contacts	Shield Floating Shield Guarding	pF pF	0.9 0.2	0.9 N/A
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	250	200
	Contacts to Coil	VDC/peak AC	250	N/A
	Contacts/Shield to Coil	VDC/peak AC	1500	1500
Operate Time - including bounce	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5 (typ.)	1.0 (typ.)
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:

<sup>1</sup> Consult factory for life expectancy at other switching loads.

<sup>2</sup> Model 2274, pins #6 & #7 are tied to coaxial shield.

#### Environmental Ratings:

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