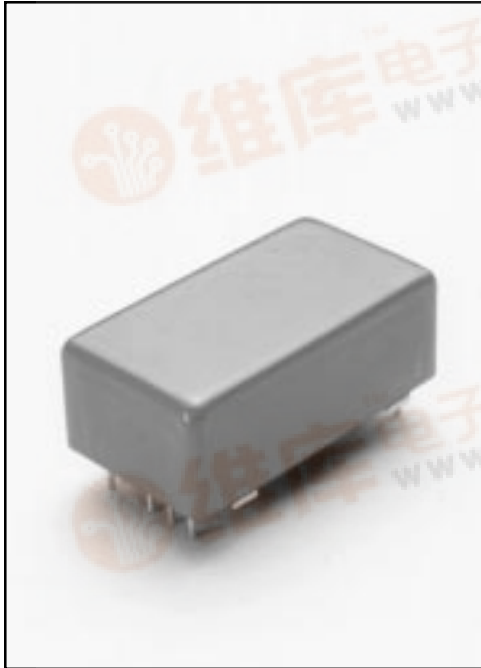


# 3600 Series/Low Thermal EMF Reed Relays

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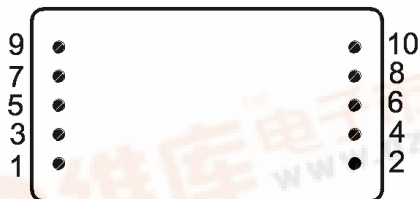
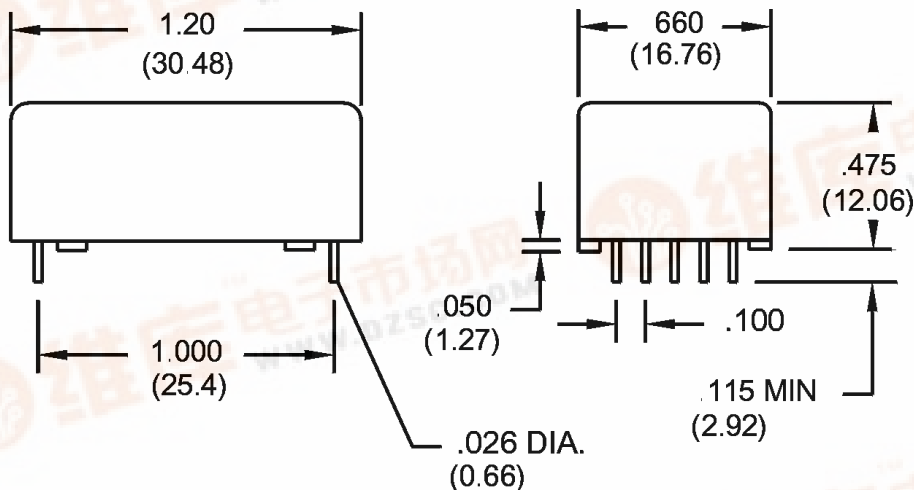


## LOW THERMAL EMF REED RELAYS

The 3600 Series is ideally suited to the needs of Instrumentation, Data Acquisition, and Process Control. The specification tables allow you to select the appropriate relay for your particular application. Recommended for use in Scanners, Multiplexers and Digital or Analog Multipoint Recorders. If your requirements differ from the selection options, please consult Coto's Factory to discuss a custom reed relay. Refer to page 41 for Thermal EMF test methods.

## 3600 SERIES FEATURES

- ◆ Low Thermal EMF:  $< 5 \mu\text{V}$  through  $< 0.5 \mu\text{V}$  with 50 nV stability.
- ◆ Patented Low Thermal Design. Patent #4,084,142.
- ◆ Low power coils to ensure low thermal EMF.
- ◆ High Insulation Resistance -  $10^{12} \Omega$
- ◆ Control/Signal isolation of 1500 VDC
- ◆ High speed switching compared to electromechanical relays.
- ◆ High reliability, hermetically sealed contacts.
- ◆ Various Form A contacts. High Dielectric Strength.
- ◆ Epoxy coated steel shell provides magnetic shielding.
- ◆ Electrostatic shield for reducing capacitive coupling.



Bottom View

Dimensions in Inches (Millimeters)

## Ordering Information

Part Number	XXXX-XX-X2	Thermal EMF Rating
Model Number	3602 3650 3660	See available ratings in specification table.
Coil Voltage	05=5 volts 12=12 volts	9= $< 5\mu\text{V}$ 8= $< 3\mu\text{V}$ 7= $< 1\mu\text{V}$ 5= $< 0.5\mu\text{V}$



# 3600 Series/Low Thermal EMF Reed Relays

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## Model Number

## Parameters

### THERMAL EMF OPTIONS

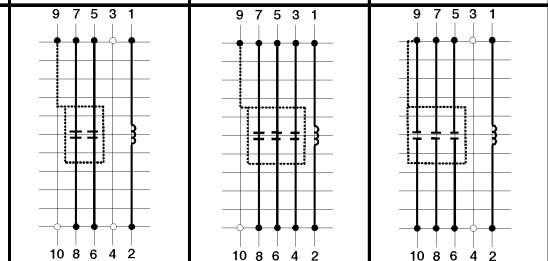
### COIL SPECS.

### CONTACT RATINGS

### RELAY SPECIFICATIONS

Parameters	Test Conditions	Units	3602 2 Form A	3650 <sup>4</sup> 3 Form A	3660 <sup>2</sup> 3 Form A	
THERMAL EMF OPTIONS	Measured after 5 minutes at nominal coil voltage Refer to Reed Relay Technical Section for Details	μV	Differential	Differential	Differential	
			<5μV	<5μV	<5μV	
			<3μV	<3μV	<3μV	
			<1μV	<1μV	<1μV	
			<0.5μV	<0.5μV	<0.5μV	
COIL SPECS.	+/- 10%, 25° C	VDC	5 12	5 12	5 12	
			Ω	350 2000	350 2000	350 2000
			VDC - Max.	3.8 9.0	3.8 9.0	3.8 9.0
			VDC - Min.	0.4 1.0	0.4 1.0	0.4 1.0
CONTACT RATINGS	Max DC/Peak AC Resist.	Volts	150	150	150	
			Amps	0.25	0.25	0.25
			Amps	1.5	1.5	1.5
			Watts	5	5	5
			x 10 <sup>6</sup> Ops.	500	500	500
			Ω	0.100	0.100	0.100
			Ω	0.200	0.200	0.200
RELAY SPECIFICATIONS	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>12</sup>	
			pF	1.2	1.2	1.2
			pF	0.2	0.2	0.2
			pF	2.5	2.5	2.5
			pF	2.5	2.5	2.5
			VDC/peak AC	250	250	250
RELAY SPECIFICATIONS	Between Contacts	VDC/peak AC	1000	1000	1000	
			VDC/peak AC	1500	1500	1500
			msec.	0.75	0.75	0.75
RELAY SPECIFICATIONS	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.1	0.1	0.1	
			Zener-Diode Suppression <sup>3</sup>	msec.	0.1	0.1

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 3660: Reed switch between pins #9 & #10 is not low thermal and is tied in common with the electrostatic shield.
- <sup>3</sup>Consists of 20V Zener-diode and 1N4002 diode in series, connected in parallel with coil.
- <sup>4</sup>Model 3650: Reed switch between pins #7 & #8 is not low thermal and is not tied in common with the electrostatic shield. Pin numbers for reference only.

### 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