## 2900 Series/ M icrominiature Reed Relays



## Microminiature Reed Relays

Ideally suited to the needs of Automated Test Equipment and RF requirements. The specification tables allow you to select the appropriate relay for your particular application. Slightly larger than the 2200 Series; these relays provide maximum versatility with options such as electrostatic and coaxial shielding. If your requirements differ, please consult your local representative or Coto's Factory.

## 2900 Series Features

- Very small ( $0.20 \mathrm{in}^{2}$ ), high reliability reed relays.
- High Insulation Resistance - $10^{12} \Omega$ offered on some models.
- High speed switching compared to electromechanical relays.
- Hermetically sealed contacts for long life.
- Epoxy coated steel shell provides magnetic shielding.
- Optional Electrostatic Shield for reducing capacitive coupling.
- Optional Coaxial Shield for $50 \Omega$ impedance and switching of fast rise time digital pulses.


Bottom
View


Dimensions in Inches (Millimeters)

## Ordering Information

|  |  |  |
| :---: | :---: | :---: |
| Model Number | mber | Shielding Options ${ }^{2}$ |
| 2904 | Coil Voltage | $0=$ No Shield |
| 2911 | $05=5$ volts | 1 = Electrostatic Shield |
| ${ }^{2920}$ Coil Options | 12 $=12$ volts | $2=$ Coaxial Shield |

1 = Use for Model \#2920 (5 \& 12 volt coil)
3 =Use for Model \#2904 (12 volt coil) and for Model \#2911 (5 \& 12 volt coil)
4 =Use for Model \#2904 ( 5 volt coil)

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## Model Number Parameters

COIL RESISTANCE


## N otes:

${ }^{1}$ Consult factory for life expectancy at other switching loads.
${ }^{2}$ Model 2904, 2911 and 2920, pin \#7 is tied to optional electrostatic shield, pins \#6 \& \#7 are tied to optional coaxial shield.
${ }^{3}$ Model 2920 has Hg wet contacts - position sensitive, must be mounted within $30^{\circ}$ of vertical plane. See schematic. ${ }^{4}$ Consist of 20V Zener-Diode and 1N4002 diode in series, connected in parallel with coil.

## Environmental Ratings

Storage Temp: $-35^{\circ} \mathrm{C}$ to ${ }^{+} 100^{\circ} \mathrm{C}$;
Operating Temp: $-20^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
Solder Temp: $270^{\circ} \mathrm{C}$ max; 10 sec . max
The operate and release voltage and the coil resistance are specified at $25^{\circ} \mathrm{C}$. These values vary by approximately $0.4 \% /{ }^{\circ} \mathrm{C}$ as the ambient temperature varies.
Vibration: 20 G's to 2000 Hz ; Shock: 50 G's

