

Microminiature Surface Mount Signal Relay

PC304S



FEATURES

- 2,000 volt dielectric between coil and contacts
- 2,500 volt surge withstand
- Meets FCC Part 68 and Telecordia
- Meets EN60950 / EN41003
- Bifurcated contacts for high sensitivity
- Single & Dual coil latching available
- Sealed, immersion cleanable
- **RoHS Compliant**



File # E86876

UL/CSA RATINGS

| | |
|--------------------------|-------------------------------------|
| Contact Form | 2 Form C DPDT (bifurcated contacts) |
| Rated Load | 2A at 30 VDC |
| Max. Operating Voltage | 220 VDC |
| Max. Switching Power | 60 W |
| Minimum Permissible Load | 10 micro A, 10 mVDC |

CONTACT DATA

| | | |
|----------------------------|---|--------------------------------|
| Material | AgPd + Au (Silver Palladium + Gold Plate) | |
| Initial Contact Resistance | 70 mOhm max @ 1mA, 20mV | |
| Service Life | Mechanical | 1 X 10 ⁵ Operations |
| | Electrical | 1 X 10 ⁸ Operations |

COIL DATA

| Type | Coil Voltage | Resistance ohms \pm 10% | Must Operate Voltage Max. (VDC) | Release Voltage Or Reset Voltage | Maximum Voltage | Coil Power Consumption mW |
|--------------------------------|--------------|---------------------------|---------------------------------|----------------------------------|-----------------|---------------------------|
| Single Side Stable .140 W | 3 | 64.3 | 2.25 | 0.3 | 6.0 | 140 |
| | 5 | 178 | 3.75 | 0.5 | 10 | 140 |
| | 6 | 257 | 4.50 | 0.6 | 12 | 140 |
| | 9 | 579 | 6.75 | 0.9 | 19 | 140 |
| | 12 | 1028 | 9.00 | 1.2 | 48 | 140 |
| | 24 | 2880 | 18.0 | 2.4 | 40.8 | 200 |
| Single Coil Latching .100 W | 3 | 90 | 2.25 | -2.25 | 5.7 | 100 |
| | 5 | 250 | 3.75 | -3.75 | 9.5 | 100 |
| | 6 | 360 | 4.50 | -4.5 | 11.4 | 100 |
| | 9 | 810 | 6.75 | -6.75 | 17.1 | 100 |
| | 12 | 1440 | 9.00 | -9.00 | 22.8 | 100 |
| | 24 | 3840 | 18.0 | -18.0 | 45.6 | 150 |
| Dual Coil Latching .200 W | 3 | 45 | 2.25 | 2.25 | 4.5 | 200 |
| | 5 | 125 | 3.75 | 3.75 | 7.5 | 200 |
| | 6 | 180 | 4.50 | 4.50 | 9.0 | 200 |
| | 9 | 405 | 6.75 | 6.75 | 13.5 | 200 |
| | 12 | 720 | 9.00 | 9.00 | 18.0 | 200 |
| | 24 | 1290 | 18.0 | 18.0 | 36.0 | 300 |

Note: Custom coil voltages within the ranges shown are available on special order.

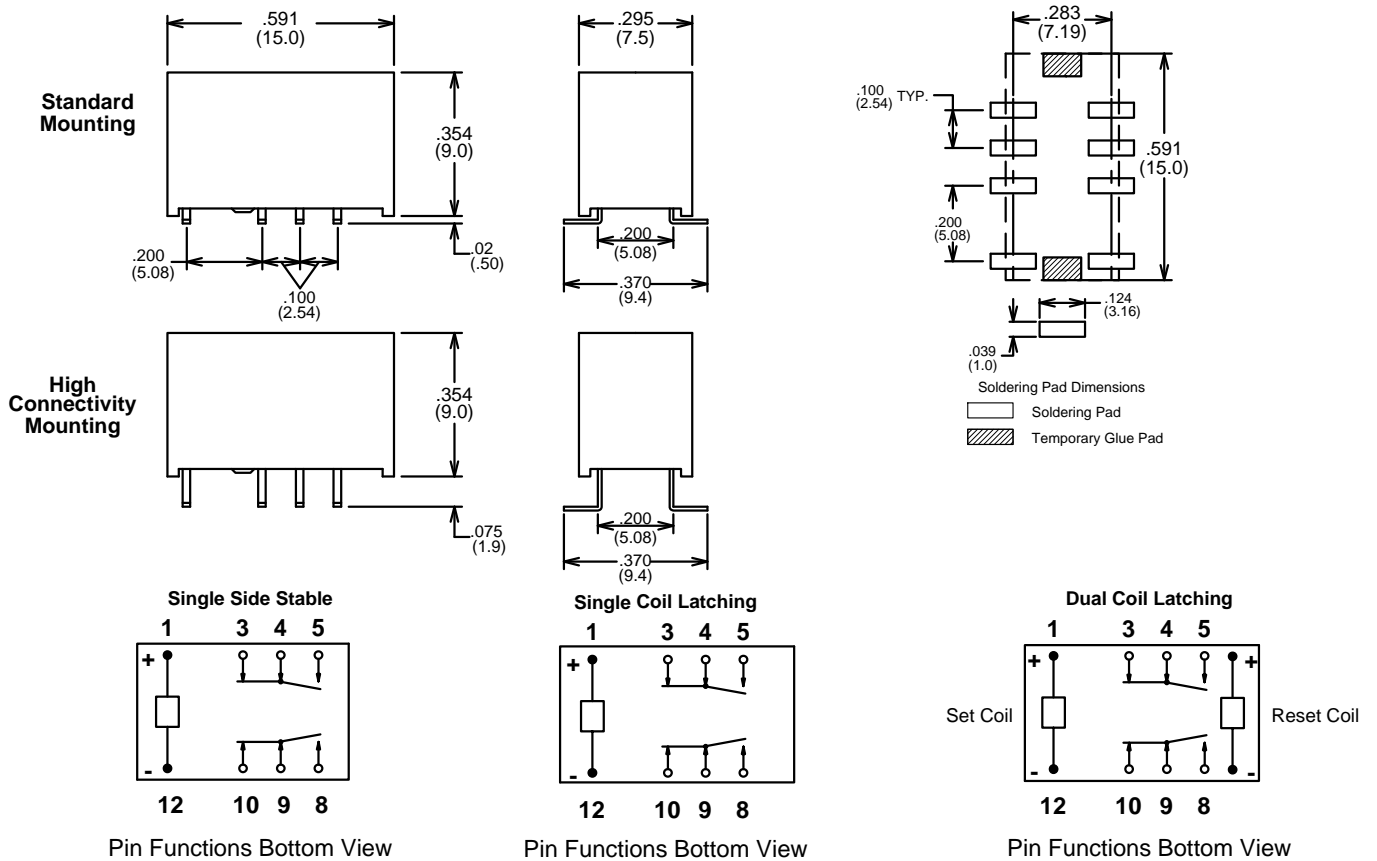
ORDERING INFORMATION

| | | | | | |
|-----------------------|---|-----|-----|----|----|
| Example: | PC304S | -12 | -L1 | -H | -X |
| Model | | | | | |
| Coil Voltage | | | | | |
| Type of Operation | Nil: Single Side Stable L1: Single Coil Latching; L2: Dual Coil Latching | | | | |
| Type of Surface mount | Nil: Standard Surface Mount; H: High Connectivity Mount | | | | |
| RoHS Compliant | Nil: Not RoHS, -X: RoHS Compliant | | | | |

CHARACTERISTICS

| Type | Single Side stable | Single & Dual Coil Latching |
|--|---|---|
| Operate Time | Less than 4 ms at nominal coil voltage | N/A |
| Set Time | N/A | Less than 4 ms at nominal coil voltage |
| Release Time | Less than 4 ms at nominal coil voltage | N/A |
| Reset Time | N/A | Less than 4 ms at nominal coil voltage. |
| Insulation Resistance | 1000 Mmegohms min. at 500 VDC, 50% RH | |
| Dielectric Strength | 2000 V rms, 1 min. between coil and contacts and between adjacent parts 1000 V rms, 1 min. between open contacts | |
| Surge Strength | 2500 V, between coil and contacts (FCC Part 68) | |
| Capacitance | 0.4 pf max. between contacts; 0.2 pf max. between adjacent poles; 0.9 pf max. between coil and contacts | |
| Shock Resistance | Min 750 m/s ² (75 G) | |
| Vibration Resistance | 10 - 55 Hz; 3.3 mm DA | |
| Allowable Max. Power Consumption at 20 C | 0.4 W | |
| Ambient Temperature | -40 degrees C to 85 degrees C | |
| Power Consumption | 0.1 to 0.14 W | |
| Weight | 2 grams approx. | |

**Dimensions in Inches (millimeters)
Drawings are 2X actual size**



Notes:

Tolerances \pm .010 unless otherwise noted
On single coil latching set polarity shown



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