Microminiature Signal Relay — PC303



FEATURES

- Microminiature design
- .200 inch DIL spacing
- 7.5 millimeter width
- Meets FCC part 68 voltage surge
- Bifurcated contacts for high sensitivity
- Single coil latching available
- Sealed, immersion cleanable
- **Now available Lead Free & RoHS Compliant**

c UL us 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 ± 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	4.5	140
	5	178	3.75	0.5	7.5	140
	6	257	4.50	0.6	9.0	140
	9	579	6.75	0.9	13.5	140
	12	1028	9.00	1.2	18.0	140
	24	2880	18.0	2.4	36.0	200
Single Coil Latching .100 W	3	90	2.25	-2.25	4.5	100
	5	250	3.75	-3.75	7.5	100
	6	360	4.50	-4.5	9.0	100
	9	810	6.75	-6.75	13.5	100
	12	1440	9.00	-9.00	18.0	100
	24	3840	18.0	-18.0	36.0	150

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

ORDERING INFORMATION

Example: PC303 -12 -L1 -X

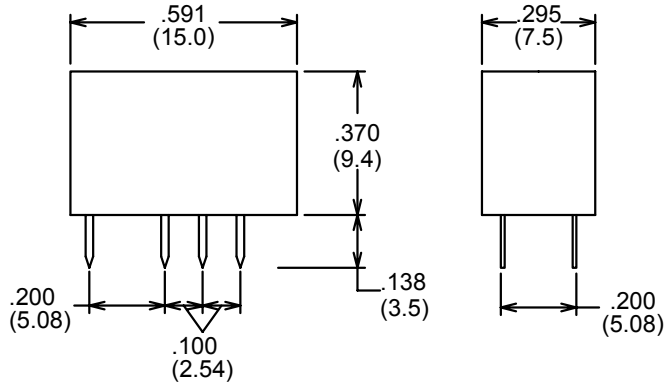
- PC303 — Model
- -12 — Coil Voltage
- -L1 — Type of Operation
  Nil: Single Side Stable
  L1: Single Coil Latching
- -X — RoHS Compliant
  Nil: Not Rohs, -X: RoHS Compliant

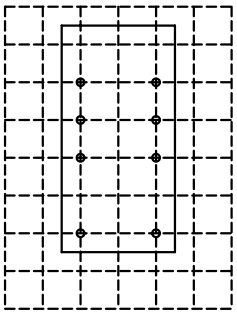
PICKER COMPONENTS
3220 Commander Drive, Suite 102, Carrollton, Texas 75006
Sales: Call Toll Free (888)997-3933 Fax (818) 342-5296 email: pickerwest@sbcglobal.net URL: pickercomponents.com

CHARACTERISTICS

Type	Single Side stable	Single 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.	

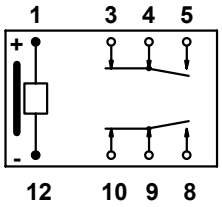
Dimensions in Inches (millimeters)
Drawings are 2X actual size



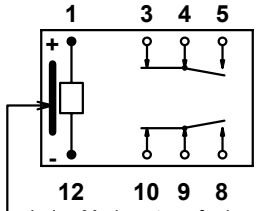


0.1 (2.54) Grid Pattern
8 Holes .032 (0.81)

Single Side Stable



Single Coil Latching



Index Mark on top of relay
indicates position of pins 1 & 12

Pin Functions Bottom Views Shown

Notes:

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

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