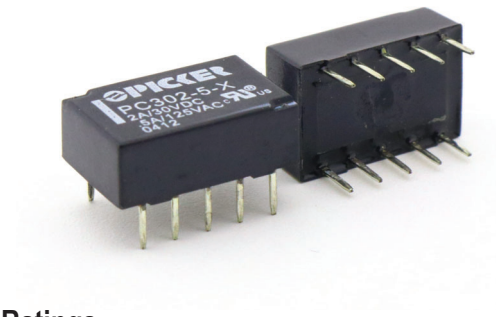
Microminiature 1 Amp Signal Relay

E86876

PC302



FEATURES

- Microminiature Design
- DIL Package for PC Board or Socket
- Low 5mm Profile
- Meets FCC Part 68 Voltage Surge
- Bifurcated Contacts for High Sensitivity

RoHS COMPLIANT

UL / CUL Ratings

Contact Form	2 Form C, DPDT bifurcated contacts	
Rated Load	Voltage	Amps
Resistive, 6K cycles, 40°C	30VDC	1A
Resistive, 6K cycles, 40°C	125VAC	.5A

CONTACT DATA

Maximum Switching Power	30W
Maximum Switching Voltage	250VAC, 48VDC
Maximum Switching Current	1A
Material	AgPd, Au Plated
Initial Contact Resistance	50 mΩ max.
Service Life Mechanical	1 x 10^7 operations
Electrical	1 x 10^5 operations

CHARACTERISTICS

Insulation Resistance	100MΩ min. at 500 VDC
Dielectric Strength	1500V rms, between coil & contacts 1000V rms, between contacts 1000V rms, between poles
Initial Surge Voltage	2500V (Telcordia, 2X10us), between coil & contacts 1500V (FCC part 68, 10x60us), between contacts
Power Consumption	.14W, .20W, .30W, .40W
Terminal Strength	5N
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40ºC to 85ºC
Storage Temperature	-40ºC to 155ºC
Shock Resistance	500 m/s² 11 ms
Vibration Resistance	10-40 Hz double amplitude 3mm
Weight	1.5g

ORDERING INFORMATION

Example		PC302	-12		-X
Model:	PC302				
Coil Voltage:	5 = 5VDC 9 = 9VDC 12 = 12VDC 24 = 24VDC				
Type of Operation:	Nil = Single Side Stable L1 = Single Coil Latching L2 = Dual Coil Latching				
RoHS Compliant:	X = RoHS Compliant				

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the applicaiton. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

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Dimensions are shown for reference purposes only.
PC302 Rev H 1/2021

Specifications and availability subject to change without notice.

COIL DATA - Single Side Stable

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum						
5	6.5	178	3.75	.5	.14	4	4
9	11.7	579	6.75	.9			
12	18.0	1028	9.00	1.2			
24	36.0	2880	18.00	2.4	.20		

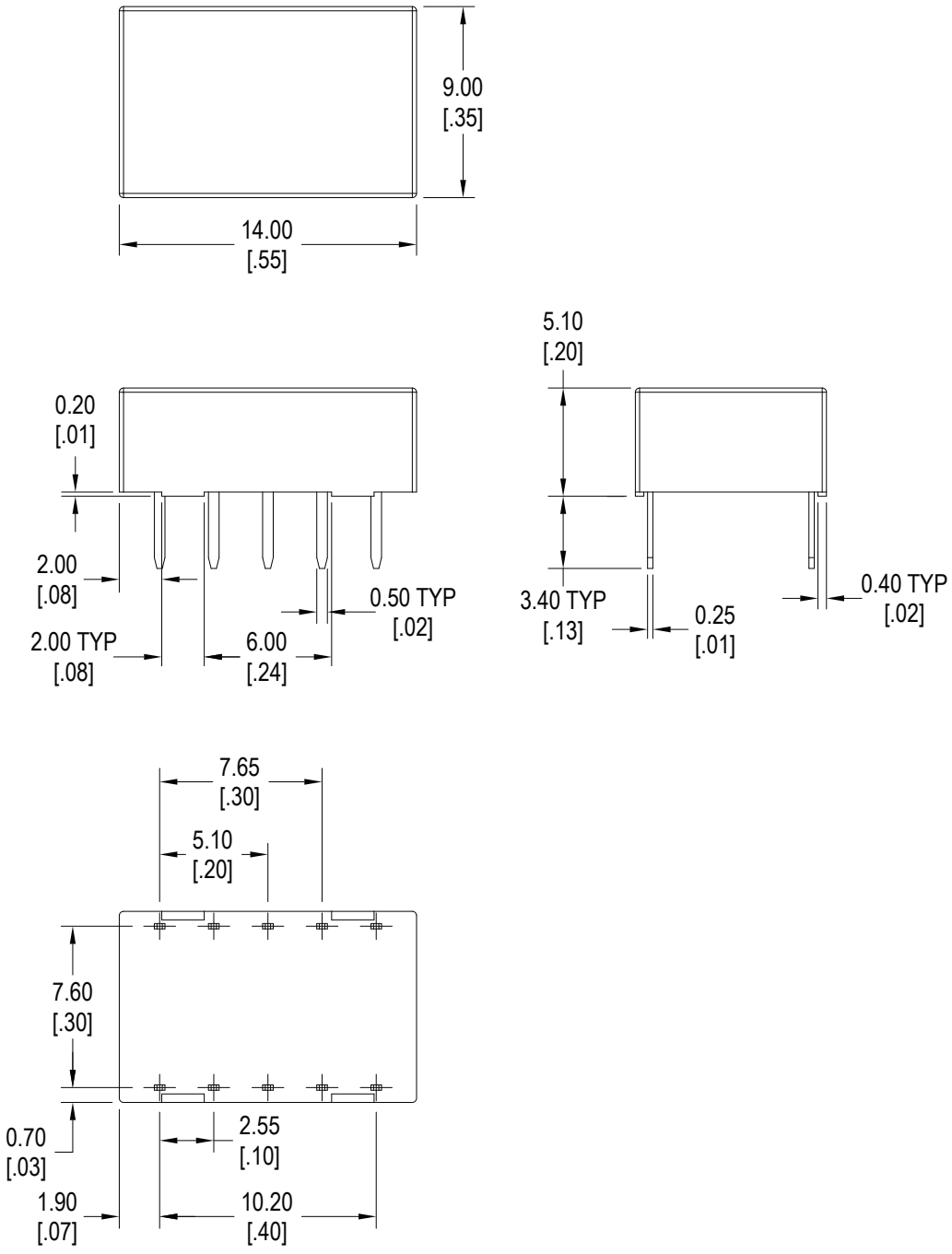
COIL DATA - Single Coil Latching

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Pulse Magnitude ms	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum						
5	14.5	62.5	3.5	≥50	.40	≤10	≤10
9	26.1	202.5	6.3				
12	34.8	360.0	8.4				
24	57.6	1440.0	16.8				

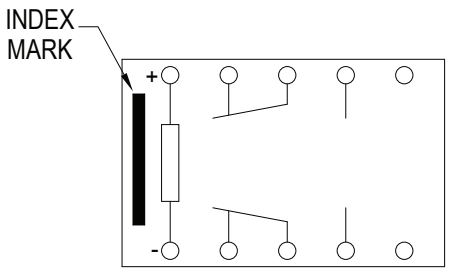
COIL DATA - Dual Coil Latching

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Pulse Magnitude ms	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum						
5	10	125	3.75	≥50	.20	≤10	≤10
9	18	405	6.75				
12	24	720	9.00				
24	36	1920	18.00		.30		

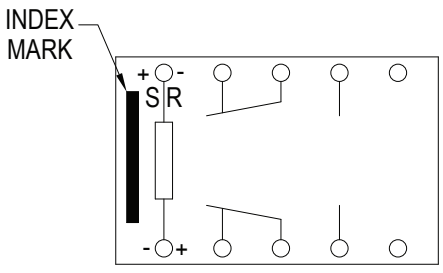
DIMENSIONS *mm (inches)*



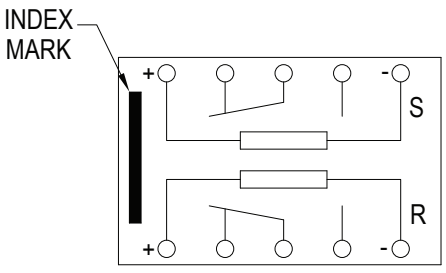
SCHEMATICS & PC LAYOUT *Bottom Views*



Single Side Stable



L1 - Single Coil Latching



L2 - Dual Coil Latching