Subminiature PCB Telecom Relay

E86876

PC312

FEATURES

- Subminiature Design
- PC Terminals on 0.1” Grid Pattern
- Meets FCC Part 68 Voltage Surge
- 0.300” 12 Pin DIL Socket Footprint

ROHS COMPLIANT

UL / CUL Ratings

Contact Form	1 Form C, SPDT	
Rated Load	Voltage	Amps
NO, General Purpose, 20K cycles, 40°C	125VAC	3A, 5A
NC, General Purpose, 10K cycles, 40°C	125VAC	3A, 5A
NO, Resistive, 50K cycles, 40°C	30VDC	3A, 5A
NC, Resistive, 30K cycles, 40°C	30VDC	3A, 5A

CONTACT DATA

Maximum Switching Power		150W
Maximum Switching Voltage		300VAC, 48VDC
Maximum Switching Current		5A
Material		AgNi+Au
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	500V rms, between contacts 1250V rms, between coil & contacts
Power Consumption	.20 W, .36W, .45W
Terminal Strength	5N
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40ºC to 85ºC
Storage Temperature	-40ºC to 155ºC
Shock Resistance	100 m/s² 11 ms
Vibration Resistance	10-40 Hz double amplitude 1.5mm
Weight	3.5g

ORDERING INFORMATION

Example	PC312	-12	H	-X
Model:	PC312			
Contact Form:	Nil = 1C			
Coil Voltage:	3 = 3VDC 5 = 5VDC 6 = 6VDC 9 = 9VDC 12 = 12VDC 24 = 24VDC			
Contact Material:	Nil = AgNi + Au			
Sensitivity:	Nil = 360mW B = 450mW H = 200mW			
Current Rating:	Nil = 3A S = 5A			
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.
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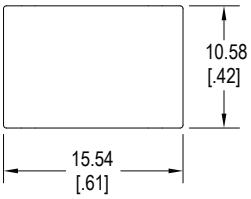
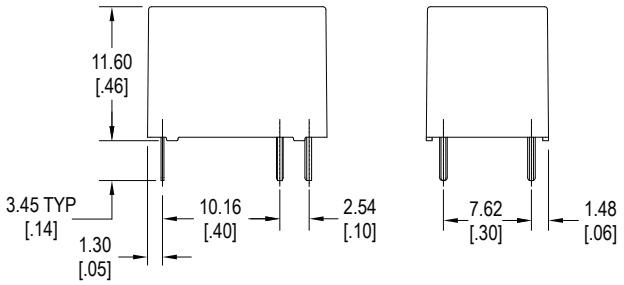
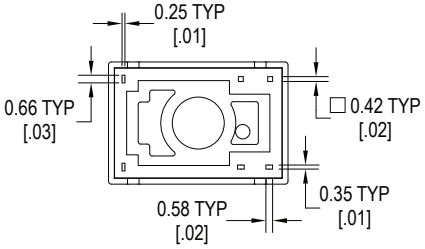
COIL DATA

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	.20W	.36W	.45W					
3	3.9	45	25	20	2.25	.3	.20 .36 .45	5	5
5	6.5	125	75	56	3.75	.5			
6	7.8	180	100	80	4.50	.6			
9	11.7	405	225	180	6.75	.9			
12	15.6	720	400	320	9.00	1.2			
24	31.2	2880	1600	1280	18.00	2.4			

DIMENSIONS *mm (inches)*







SCHEMATICS & PC LAYOUT *Bottom Views*