

## Subminiature PCB Telecom Relay

**PC455**



### FEATURES

- Thin 5A Power Relay (7.0 mm Wide)
- Low Coil Power Consumption (200 mW)
- 4 kV Dielectric
- 1 Form A (SPST-NO) Contact Form
- Sealed, Immersion Cleanable
- RoHS Compliant

### CONTACT DATA

Contact Form	1 Form A (SPST-NO)	
Rated Load	Voltage	Amps
Resistive	250 VAC	5 A
Resistive	30 VDC	5 A

Max. Switching Power	90 W 1,250VA	
Max. Switching Voltage	30 VDC 250 VAC	
Max. Switching Current	5 A	
Material	AgNi, AgSnO <sub>2</sub>	
Initial Contact Resistance	1000 mΩ max	
Service Life	Mechanical	5 X 10 <sup>6</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

### CHARACTERISTIC

Operate Time	10.0 ms. Max.
Release Time	10.0 ms. Max.
Insulation Resistance	1,000 MΩ min, at 500 VDC
Dielectric Strength	750 VAC, 50 Hz, Between Contacts
	4000 VAC, 50 Hz, Between Coil and Contacts
Impulse Withstand Voltage	10 kV (1.2/50 μs) Between Coil and Contacts
Power Consumption	200 mW

### CHARACTERISTIC Continued

Shock Resistance	Functional	100 m/s <sup>2</sup> 11 ms
	Destructive	1,000 m/s <sup>2</sup> 11 ms
Vibration Resistance	Functional	10 Hz - 55 Hz Double Amplitude 1.5 mm
	Destructive	10 Hz - 55 Hz Double Amplitude 5 mm
Terminal Strength	5N	
Solderability	260 °C ± 2°C 3 s ± 0.5 s	
Temperature Range	- 40°C ~ 85°C	
Relative Humidity	5%~85% at 40°C	
Weight	4 g	

### ORDERING INFORMATION

Example:	PC455	-1A	-12	C	-X
Model:	<b>PC455</b>				
Contact Form:	<b>1A:</b> 1A (SPST-NO)				
Coil Voltage:	<b>5, 12, 18, 24</b>				
Enclosure:	<b>C:</b> Dust Cover, <b>S:</b> Sealed				
RoHS Compliant:	<b>-X</b>				

Box Quantity: 2,000 ; Inner Box 1,000

**COIL DATA**

Coil Voltage (VDC) (1)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC) (2)	Must Release Voltage Min. (VDC) (2)	Coil Power (mW)
Rated	Max				
5	6.0	125	3.5	0.5	200
12	14.4	720	8.4	1.2	
18	21.6	1620	12.6	1.8	
24	28.8	2880	16.8	2.4	

**NOTES:**

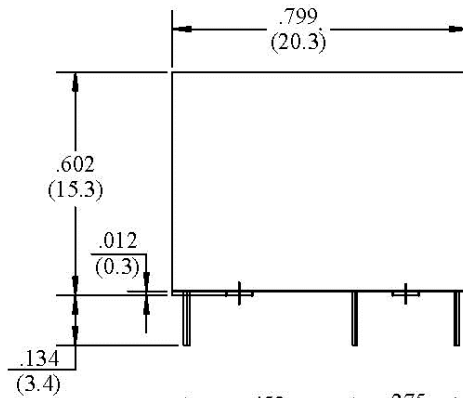
- (1)The use of any coil voltage less that the rated voltage will compromise the operation of the relays.
- (2)Must Operate Voltage and Must Release Voltages are for test purposes only and are not to be used as design criteria.

**CROSS REFERENCES**

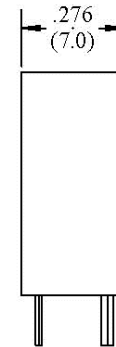
Omron	G5NB-1A4-E-DC12
	G5NB-1A-E-DC24
American Zettler	AZ921
Panasonic	LD
	ALD

**DIMENSIONS Inches/mm**

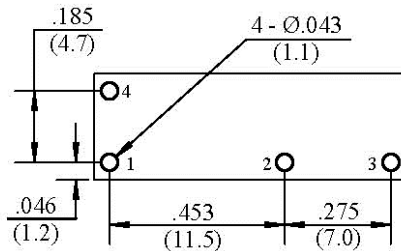
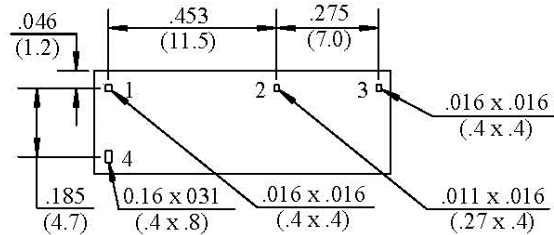
**Relay (Front View)**



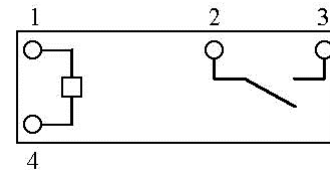
**Relay (Side View)**



**Terminal Layout (Bottom View)**



**Wire Diagram (1A)**



**PC Board Mounting**