

RoHS Compliant

CIT RELAY & SWITCH™
Division of Circuit Interruption Technology, Inc.

J102

E197851

15.5 x 10.5 x 11.25 mm

Features

- High sensitivity
- Super light weight
- Low coil power consumption
- PC board mounting
- Ideal for high density mounting

Contact Data

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Rating	1A & 3A @ 125VAC 1A & 3A @ 30VDC 5A @ 125VAC 5A @ 30VDC Pilot Duty 270VA, 120VAC

Contact Resistance	< 50 milliohms initial
Contact Material	AgNi + Au
Maximum Switching Power	150W
Maximum Switching Voltage	300VAC, 150VDC
Maximum Switching Current	5A

Coil Data

Coil Voltage VDC		Coil Resistance Ω +/- 10%			Pick Up Voltage VDC (max) 75% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.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			

General Data

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	100M Ω min. @ 500VDC
Dielectric Strength, Coil to Contact Contact to Contact	1250V rms min. @ sea level 500V rms min. @ sea level
Shock Resistance	100m/s^2 for 11 ms
Vibration Resistance	1.50mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	5N
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +155°C
Solderability	260°C for 5 s
Weight	3.5g

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Specifications and availability subject to change without notice.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

www.citrelay.com
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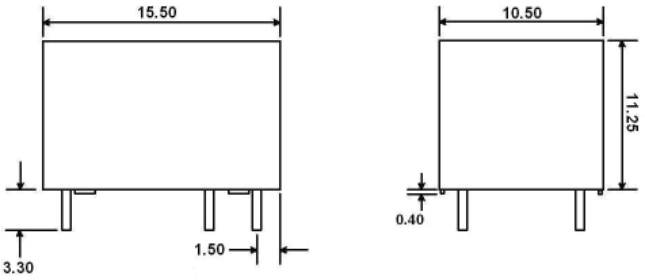
J102

Ordering Information

1. Series J102 (6 pin configuration) Std J102k (5 pin configuration)	J102	1C	S	3	12VDC	.45
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT						
3. Sealing Options S = Sealed						
4. Contact Options 1 = 1amp (requires .2, .36 or .45 watt coil) 3 = 3amp (requires .2, .36 or .45 watt coil) 5 = 5amp (requires .45 watt coil)						
5. Coil Voltage 3VDC 5VDC 6VDC 9VDC 12VDC 24VDC						
6. Coil Power .20 = .20W .36 = .36W .45 = .45W						

Dimensions

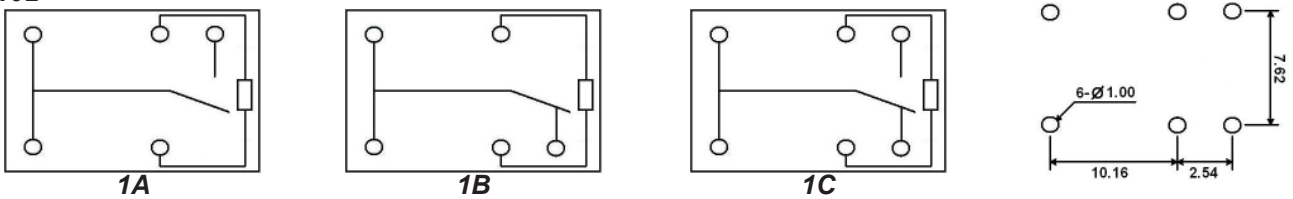
Units = mm



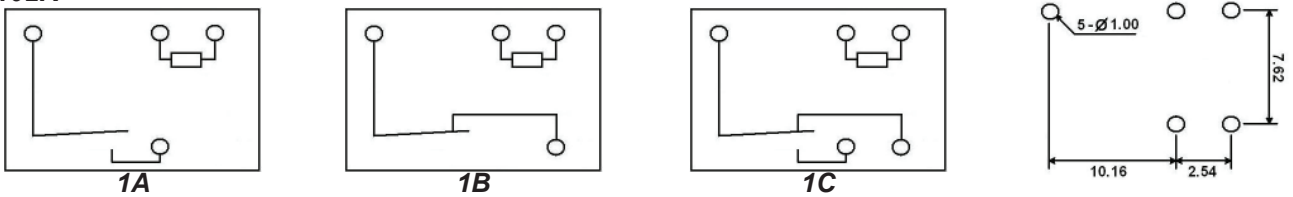
Schematics & PC Layouts

Bottom Views

J102



J102K



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