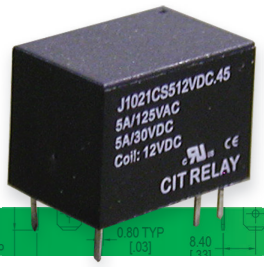


CIT Relay & Switch

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

Contact Rating	
AgNi	3A & 5A @125VAC, general use, 20k cycles for N.O., 10k cycles for N.C. 3A & 5A @ 30VDC, resistive use, 50k cycles for N.O., 30k cycles for N.C.
Ag	1A & 3A @125VAC, general use 1A & 3A @ 30VDC, resistive use Pilot Duty 270VA, 120VAC, N.O., 30k cycles Pilot Duty 270VA, 120VAC, N.C., 6k cycles

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

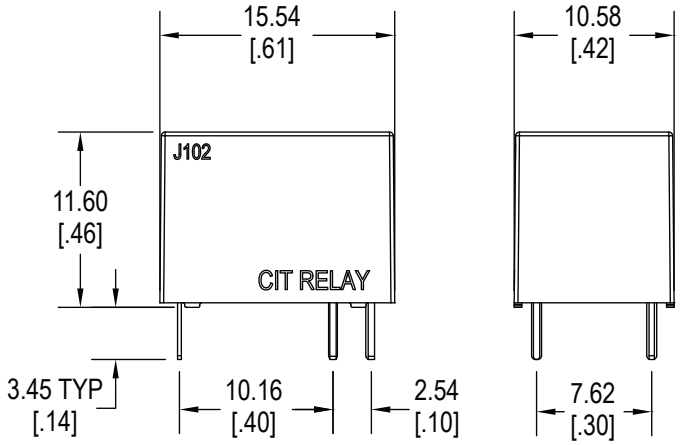
* *Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

Ordering Information

1. Series	J102	1C	S	3	12VDC	.45
J102 J102K						
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT						
3. Sealing Options S = Sealed						
4. Contact Options 1 = 1amp Ag (requires .2, .36 or .45 watt coil) 3 = 3amp AgNi (requires .2, .36 or .45 watt coil) 3P = 3amp Ag (requires .2, .36 or .45 watt coil) 5 = 5amp AgNi (requires .45 watt coil)						
5. Coil Voltage 3VDC 5VDC 6VDC 9VDC 12VDC 24VDC						
6. Coil Power .20 = .20W .36 = .36W .45 = .45W						

Dimensions

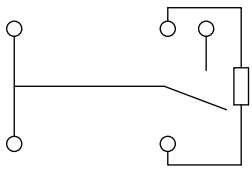
Units = mm



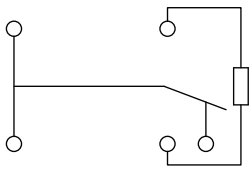
Schematics & PC Layouts

Bottom Views

J102



1A



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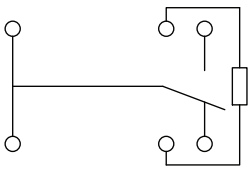
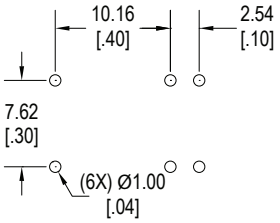
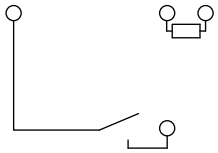


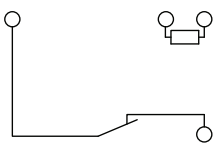
1C



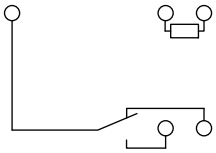
J102K



1A



1B



1C