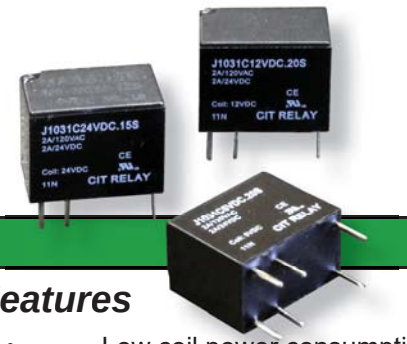


CIT RELAY & SWITCH™
Division of Circuit Interruption Technology, Inc.

RoHS Compliant

J103

E197851 12.5 x 7.5 x 10.0 mm

Features

- Low coil power consumption
- High sensitivity
- Conforms to FCC part 68
- PC board mounting
- Small size, light weight

Contact Data*

Contact Arrangement	1C = SPDT
Contact Rating	2A @ 120VAC, Resistive 2A @ 24VDC, Resistive

Contact Resistance	< 50 milliohms initial
Contact Material	Ag + Au
Maximum Switching Power	30W
Maximum Switching Voltage	125VAC, 60VDC
Maximum Switching Current	2A

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	.15W	.20W					
3	3.9	60	45	2.25	.3	.15 .20	4.5	1.5
5	6.5	167	125	3.75	.5			
6	7.8	240	180	4.50	.6			
9	11.7	540	405	6.75	.9			
12	15.6	960	720	9.00	1.2			
24	31.2	3840	2880	18.00	2.4			

General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	5M cycles, average
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength, Coil to Contact Contact to Contact	1500V rms min. @ sea level initial 1000V rms min. @ sea level initial
Shock Resistance	100m/s^2 for 11 ms
Vibration Resistance	3.30mm 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	2.2g

* *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.*

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

Specifications and availability subject to change without notice.

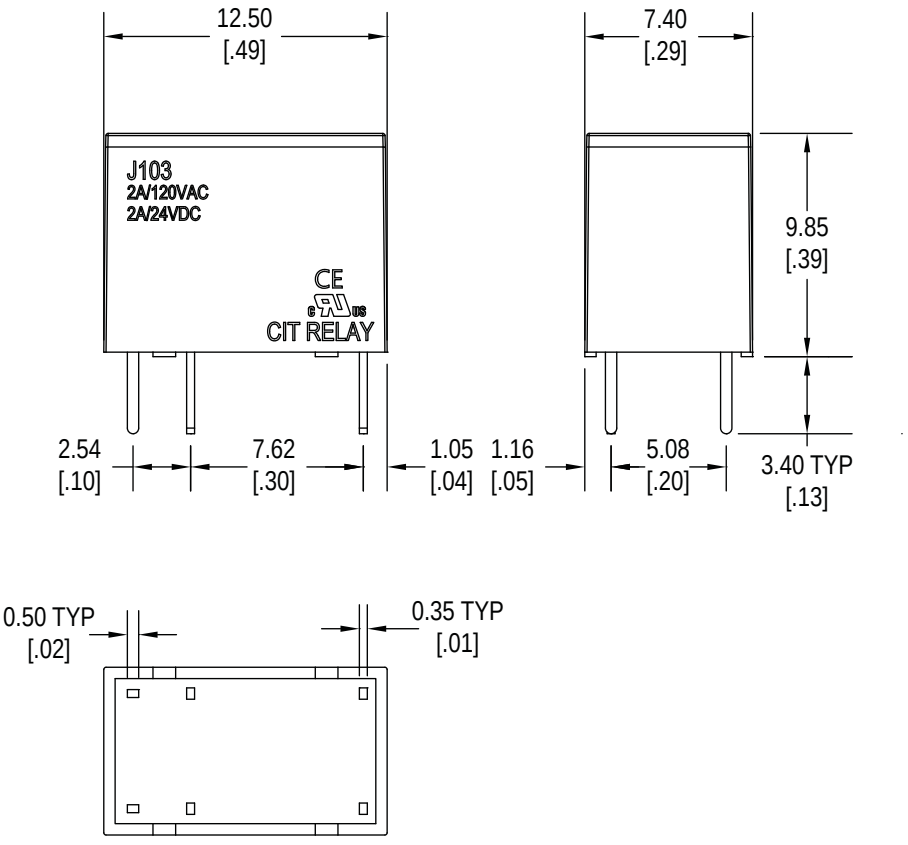
J103

Ordering Information

1. Series	J103	1C	12VDC	.20	S
J103					
2. Contact Arrangement 1C = SPDT					
3. Coil Voltage 3VDC 5VDC 6VDC 9VDC 12VDC 24VDC					
4. Coil Power .15 = .15W .20 = .20W					
5. Sealed S = Sealed (standard)					

Dimensions

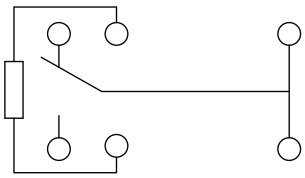
Units = mm

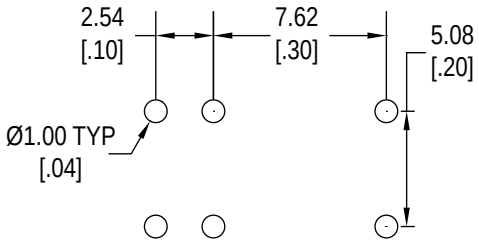


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Schematics & PC Layouts

Bottom Views





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