RoHS Compliant

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

J104D

E197851 | 20.4 x 10.05 x 11.0 mm

Features

- High sensitivity
- Low cost
- Conforms to FCC part 68
- Clearance more than 1.2mm between coil and contacts
- Creepage more than 1.9mm between coil and contacts
- Bifurcated contacts for high reliability

Contact Data

Contact Arrangement	2C = DPDT Bifurcated Contacts
Contact Rating	2A @ 24VDC 1A @ 120VAC
Contact Material	AgNi + Au Clad
Contact Resistance	≤ 50 milliohms initial

Maximum Switching Power	48W, 120VA
Maximum Switching Voltage	250VAC, 100VDC
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	.36W	.45W					
3	3.9	60	45	25	20	2.25	0.3	.15 .20 .36 .45	6	4
5	6.5	167	125	56	56	3.75	0.5			
6	7.8	240	180	70	80	4.50	0.6			
9	11.7	540	405	100	180	6.75	0.9			
12	15.6	960	720	400	320	9.00	1.2			
24	31.2	n/a	2880	1600	1280	18.00	2.4			
48	62.4	n/a	n/a	6400	5100	36.00	4.8			

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	1000V rms min. @ sea level
Contact to Contact	500V rms min. @ sea level
Shock Resistance	100m/s² for 11 ms
Vibration Resistance	1.5mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	5N
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Solderability	260°C for 5 s
Weight	5g

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
2. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

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

Specifications and availability subject to change without notice.

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

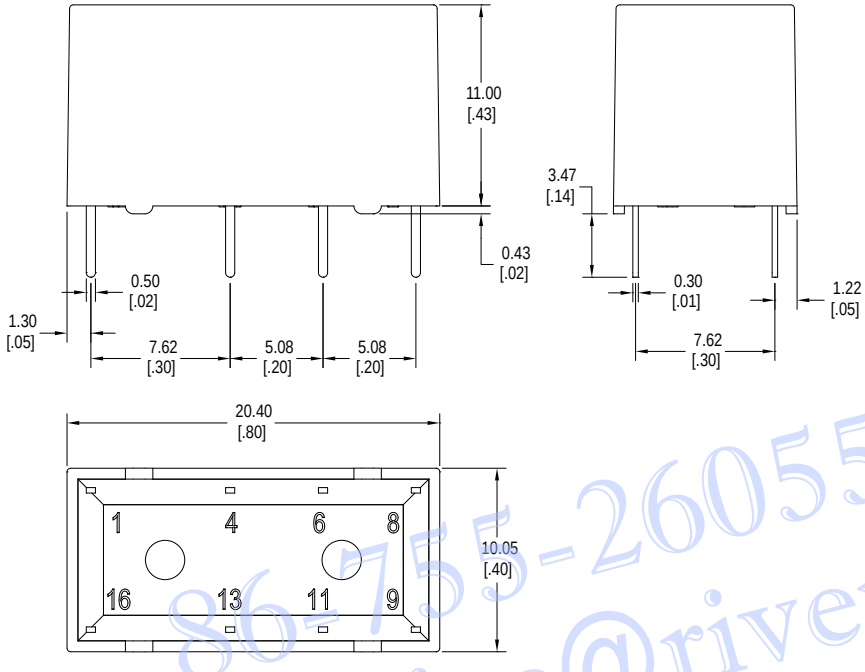
J104D

Ordering Information

1. Series	J104D	2C	12VDC	.45	S
J104D					
2. Contact Arrangement 2C = DPDT					
3. Coil Voltage 3VDC 5VDC 6VDC 9VDC 12VDC 24VDC 48VDC					
4. Coil Power .15 = .15W .20 = .20W .36 = .36W .45 = .45W					
5. Seal S = Sealed (standard)					

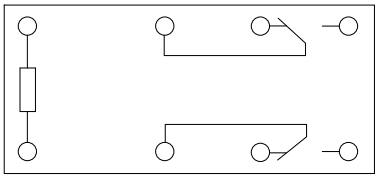
Dimensions

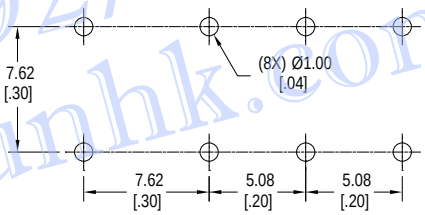
Units = mm



Schematic & PC Layout

Bottom View





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

Specifications and availability subject to change without notice.