





12.5 x 7.5 x 10.0 mm

E197851

### **Features**

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

### **Contact Data**

Contact Arrangement	1A = SPST N.O.		
	1C = SPDT		
Contact Rating	2A @ 120VAC		
	2A @ 24VDC		

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

### **Coil Data**

	oltage OC	Resis	oil tance 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	voltage	voltage				
3	3.9	60	45	2.25	.3				
5	6.5	167	125	3.75	.5	.15			
6	7.8	240	180	4.50	.6		4.5	1.5	
9	11.7	540	405	6.75	.9	.20	4.5	1.5	
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, typical	
Mechanical Life	5M cycles, typical	
Insulation Resistance	100M Ω min. @ 500VDC	
Dielectric Strength, Coil to Contact	1500V rms min. @ sea level	
Contact to Contact	1000V rms min. @ sea level	
Shock Resistance	100m/s <sup>2</sup> for 11 ms	
Vibration Resistance	3.30mm 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	2.2g	

#### Caution

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.

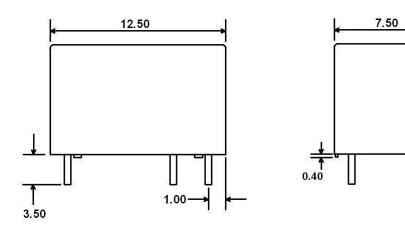


# Ordering Information

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

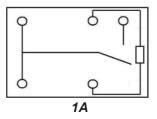
### **Dimensions**

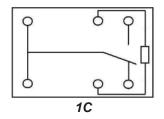
Units = mm

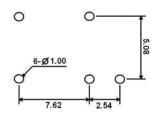


## Schematics & PC Layouts

#### **Bottom Views**







10.00