

# 6D 1 Form C Series

PCB High Density

## PRODUCT DESCRIPTIONS



In order to meet high density market demand, 1 Form C (SPDT) relay has been added to 6D series. Since SPDT contact form allows double the density in tree-circuit. Suitable for Load board applications and high density switching matrix.

- SPDT High Density
- 5V and 12V Coil available
- Required Mounting Space: 5.3mm x 5.3mm
- Magnetic Shield
- High Operating Temperature Option available



## SPECIFICATIONS

6D 1 Form C Series		6D-1C10N0		6D-1C20N0		
Parameters	Units	1 Form C				Test Conditions
<b>Coil Specifications</b>						
Nominal Coil Voltage	VDC	5.0	12.0	5.0	12.0	±10% @ 20°C @ 20°C @ 20°C
Coil Resistance	Ω	150	500	150	500	
Operate Voltage	VDC Max	3.75	8.8	3.75	8.8	
Release Voltage	VDC Min	0.7	1.2	0.7	1.2	
<b>Contact Ratings</b>						
Switching Voltage	Volts	100				Max DC/Peak AC resistance
Switching Current	Amps	0.2				Max DC/Peak AC resistance
Carry Current	Amps	0.5				Max DC/Peak AC resistance(@ 30°C)
Contact Rating	Watts	3				Max DC/Peak AC resistance
Life Expectancy	x10 <sup>6</sup> Cycle	50				@ 1V 10mA
Contact Resistance	mΩ	150				Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0				Max initial @ operate voltage
<b>Relay Specifications</b>						
Insulation Resistance	Ω Min	10 <sup>10</sup>				@ 100V 25°C 65%RH
	Ω Min	10 <sup>10</sup>				Between contacts Contacts to coil
Dielectric Strength (Static)	VDC Min	200				Between contacts
	VDC Min	500				Contacts to coil
Operate Time (Including Bounce)	msec Max	1.0				@ nominal coil voltage
Release Time	msec Max	2.0				100 Hz square wave Diode suppression
<b>Measurement Reference Conditions</b>			<b>Environmental Ratings</b>			
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa			Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's			

**Dimensions** All Dimensions are inches (mm)

**Schematic <Top View>**

**6D-1C□0N0**

