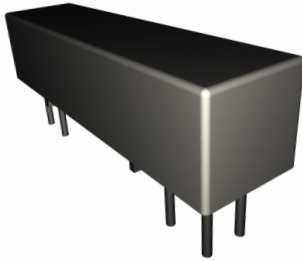


# 20D Coaxial Series

PCB Mount  
Coaxial



## PRODUCT DESCRIPTIONS

This impedance matched variant of the 20D Series is based on a coaxial design, providing superior RF characteristics in high frequency range.

## SPECIFICATIONS



| 20D Coaxial Series   |                        | 20D-1A □ 5N15    |  |  |
|--|------------------------|------------------|--|--|
|  |                        | 20D-1A □ 5N17    |  |  |
| Parameters   | Units                  | 1 Form A         |  | Test Conditions                                |
| <b>Coil Specifications</b>   |                        |                  |  |  |
| Nominal Coil Voltage   | VDC                    | 5.0              | 12.0   |  |
| Coil Resistance  | Ω                      | 160              | 600  | ±10% @ 20°C                                    |
| Operate Voltage  | VDC Max                | 3.75             | 8.8  | @ 20°C   |
| Release Voltage  | VDC Min                | 0.7              | 1.2  | @ 20°C   |
| <b>Contact Ratings</b>   |                        |                  |  |  |
| Switching Voltage  | Volts                  | 100              |  | Max DC/Peak AC resistance                      |
| Switching Current  | Amps                   | 0.5              |  | Max DC/Peak AC resistance                      |
| Carry Current  | Amps                   | 1.0              |  | Max DC/Peak AC resistance                      |
| Contact Rating   | Watts                  | 10               |  | Max DC/Peak AC resistance                      |
| Life Expectancy  | x10 <sup>6</sup> Cycle | 1000             |  | @ 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>11</sup> |  | Between all isolated pins<br>@ 100V 20°C 65%RH |
| Dielectric Strength  | VDC Min                | 200              |  | Between contacts                               |
|  | VDC Min                | 500              |  | Contacts to shield                             |
|  | VDC Min                | 500              |  | Contacts/Shield to coil                        |
| Operate Time<br>(Including Bounce)   | msec Max               | 0.35             |  | @ nominal coil voltage<br>100 Hz square wave   |
| Release Time   | msec Max               | 0.25             |  | Diode suppression                              |
| <b>Measurement Reference Conditions</b>  |                        |                  | <b>Environmental Ratings</b>   |  |
| Temp: 15°C to 35°C<br>Humidity: 25% to 75%RH<br>Atmospheric Pressure: 860 to 1060hpa |                        |                  | Storage temp: -40°C to +85°C<br>Operate temp: -20°C to +80°C<br>Vibration: 20G's to 2000Hz<br>Shock: 50G's |  |

### Ordering Code:

**20D-1A □ 5N15** (50 Ω Coaxial shield)  
□=1 (5.0VDC), 2 (12.0VDC)

**20D-1A □ 5N17** (75 Ω Coaxial shield)  
□=1 (5.0VDC), 2 (12.0VDC)

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

**Schematic <Top View>**

**20D-1A □ 5N15/20D-1A □ 5N17**

