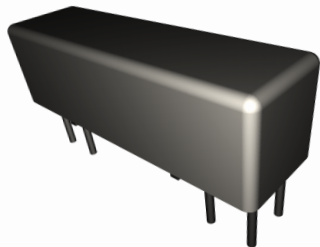


# 30D Series

# PCB Mount Coaxial



## PRODUCT DESCRIPTIONS

The 30D Series offers a smaller package size compared with the 20D Series, and comes 1 Form A, 2 Form A and 1 Form C configurations with 50Ω matched impedance. This series has strong support from VXI/PXI for high frequency signal controllers.

## SPECIFICATIONS



| 30D Series                                  |                        | 30D-1A□5N15                  | 30D-1A□5N17 | Coaxial |  |
|---|------------------------|------------------------------|-------------|---------|--|
| Parameters                                  | Units                  | 1 Form A                     |             |         | Test Conditions                                |
| <b>Coil Specifications</b>                  |                        |                              |             |         |  |
| Nominal Coil Voltage                        | VDC                    | 5.0                          | 12.0        | 5.0     | 12.0   |
| Coil Resistance                             | Ω                      | 160                          | 600         | 160     | 600  |
| Operate Voltage                             | VDC Max                | 3.2                          | 8.0         | 3.2     | 8.0  |
| Release Voltage                             | VDC Min                | 0.7                          | 1.2         | 0.7     | 1.2  |
| ±10% @ 20°C<br>15°C to 35°C<br>15°C to 35°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 40%RH |
| Dielectric Strength                         | VDC Min                | 200                          |             |         | Between contacts                               |
|   | VDC Min                | 200                          |             |         | Contacts to shield                             |
|   | VDC Min                | 200                          |             |         | Contacts/Shield to coil                        |
| Operate Time<br>(Including Bounce)          | msec Max               | 0.35                         |             |         | @ nominal coil voltage                         |
| Release Time                                | msec Max               | 0.25                         |             |         | 100Hz square wave<br>Diode suppression         |
| <b>Environmental Ratings</b>                |                        |                              |             |         |  |
| Measurement Reference Conditions            |                        | Storage temp: -40°C to +85°C |             |         |  |
| Temp: 15°C to 35°C                          |                        | Operate temp: -20°C to +80°C |             |         |  |
| Humidity: 25% to 75%RH                      |                        | Vibration: 20G's to 2000Hz   |             |         |  |
| Atmospheric Pressure: 860 to 1060hpa        |                        | Shock: 50G's                 |             |         |  |

### Ordering Code:

**30D-1A□5N15** (50Ω Coaxial shield)

□=1(5.0VDC), 2 (12.0VDC)

**30D-1A□5N17** (75Ω Coaxial shield)

□=1(5.0VDC), 2 (12.0VDC)

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

**Schematic <Top View>**

**30D-1A□5N15/30D-1A□5N17**

