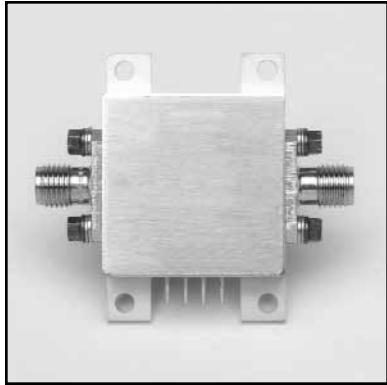




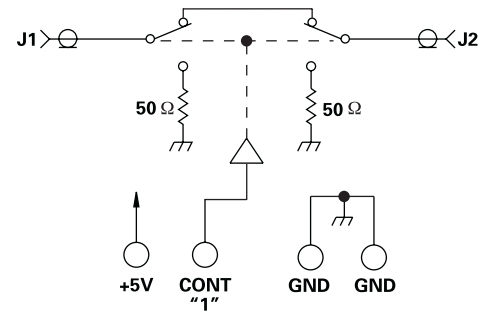
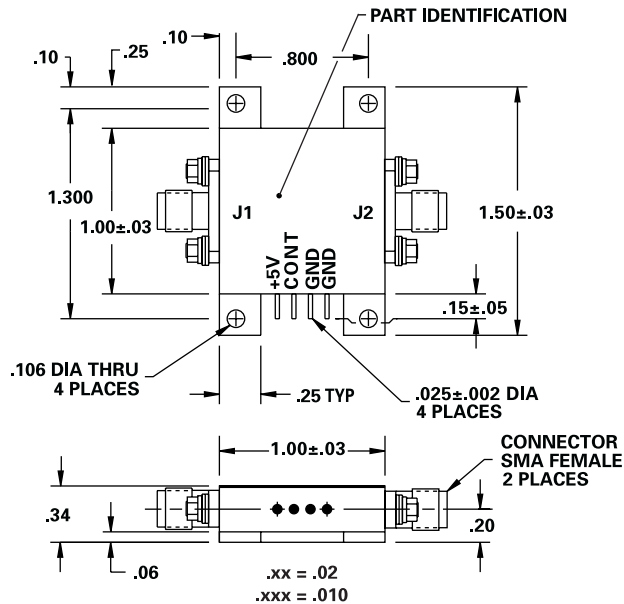
## MODEL NUMBER CDS0621

## Pin Diode SPST

### FEATURES

- 20-2000 MHz
- 6 mA, +5 VDC
- 70 dB Isolation
- TTL Driver
- Non-Reflective
- Replaceable SMA Connectors

## SPST



## GUARANTEED PERFORMANCE

| Parameter                   | Min                  | Typ              | Max               | Units | Conditions                                          |
|-----------------------------|----------------------|------------------|-------------------|-------|-----------------------------------------------------|
| Operating Frequency         | 20                   |                  | 2000              | MHz   |                                                     |
| DC Current                  |                      | 6.0              | 12                | mA    | At +5 VDC Supply                                    |
| Control Type                |                      | TTL              |                   |       | 1 Line<br>Logic "0" = Isolation<br>Logic "1" = Thru |
| Control Current             | High<br>Low          | 0<br>0           | ±10<br>±10        | μA    | V <sub>IH</sub> = +2.7V<br>V <sub>IL</sub> = +0.5V  |
| Insertion Loss              |                      | 0.95<br>1.30     | 1.5<br>2.0        | dB    | 20 - 1000 MHz<br>1000 - 2000 MHz                    |
| Isolation                   | 60<br>50             | 70<br>60         |                   | dB    | 20 - 1000 MHz<br>1000 - 2000 MHz                    |
| VSWR                        |                      | 1.15/1<br>1.15/1 | 1.30/1<br>1.50/1  |       |                                                     |
| Impedance                   |                      | 50               |                   | OHMS  |                                                     |
| Switching Speed             |                      | 1.4              | 3.0               | μSEC  | 50% TTL to 90% / 10% RF                             |
| Transition (Rise/Fall) Time |                      | 0.3              |                   | μSEC  | 90% / 10% or 10% / 90% RF                           |
| Switching Transients        |                      | 400              |                   | mV    | Peak Value                                          |
| Intercept Points            | 2nd<br>3rd           | +70<br>+38       |                   | dBm   | 50 MHz / 70 MHz<br>50 MHz / 35 MHz                  |
| RF Power                    | Operate<br>No Damage | +15<br>+20       | +10<br>+17<br>+27 | dBm   | 20 - 100 MHz<br>100 - 2000 MHz                      |
| Operating Temperature       | -55                  | +25              | +125              | °C    | TA                                                  |

