

## FEATURES

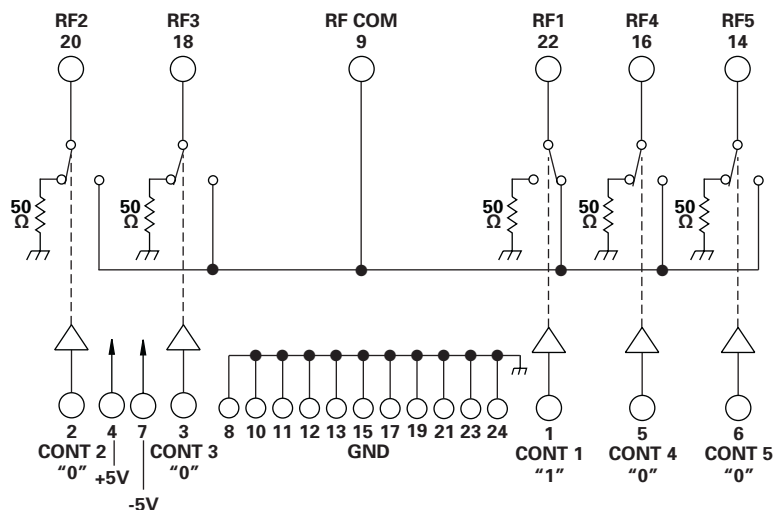
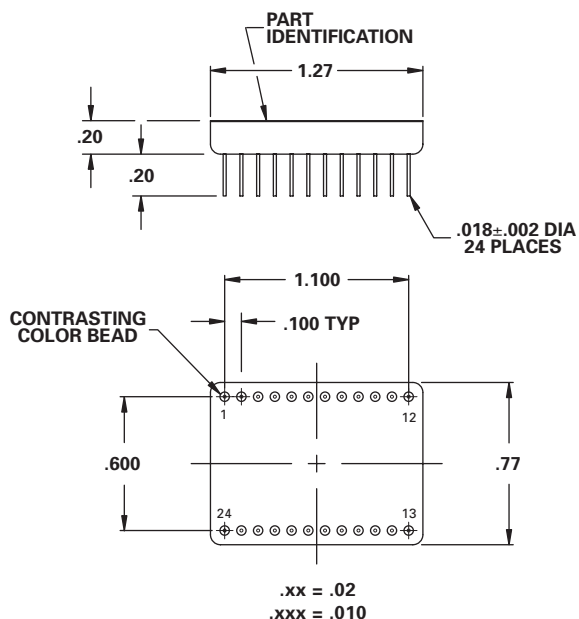
- 20 - 300 MHz
- 0.65 dB Insertion Loss
- Non-Reflective
- TTL Driver
- Small 24 Pin DIP
- Low Cost



**MODEL NO.  
DS0028**

**PIN Diode SP5T**

**SP5T**



## GUARANTEED PERFORMANCE

| Parameter             | Min       | Typ   | Max   | Units | Conditions                            |
|-----------------------|-----------|-------|-------|-------|---------------------------------------|
| Operating Frequency   | 20        |       | 300   | MHz   |                                       |
| DC Current            |           | 20    | 32    | mA    | At +5 VDC Supply                      |
|                       |           | 90    | 140   | mA    | At -5 VDC Supply                      |
| Control Type          |           | TTL   |       |       | 5 Line Logic "1" = On Logic "0" = Off |
| Control Current       | High      |       | 100   | μA    | V <sub>IH</sub> = +2.7V               |
|                       | Low       |       | -800  | μA    | V <sub>IL</sub> = +0.4V               |
| Insertion Loss        |           | 0.7   | 1     | dB    |                                       |
| Isolation             | 45        | 48    |       | dB    | 20 - 175 MHz                          |
|                       | 40        | 43    |       | dB    | 175 - 300 MHz                         |
| VSWR                  | Thru      | 1.1/1 | 1.3/1 |       |                                       |
| Impedance             |           | 50    |       | OHMS  |                                       |
| Switching Speed       |           |       | 1     | μSEC  | 50% TTL to 90% / 10% RF               |
| RF Power              | Operate   | +13   | +10   | dBm   | 0.1 dB Comp 20 - 100 MHz              |
|                       |           | +16   | +13   | dBm   |                                       |
|                       | No Damage |       | +25   | dBm   | 0.1 dB Comp 100 - 300 MHz             |
| Operating Temperature | -55       | +25   | +125  | °C    | TA                                    |

