

# SPDT RF SWITCH

## MODEL TWD5001

Package: DP3 - 14 lead DIP Package  
 Also Available In: Connectorized Housings

### Features

- 10 - 1000 MHz
- RF1, RF2 Terminated in "OFF" State
- Integral TTL Driver
- OperatingTemp. -55 °C to + 85 °C
- Environmental Screening Available

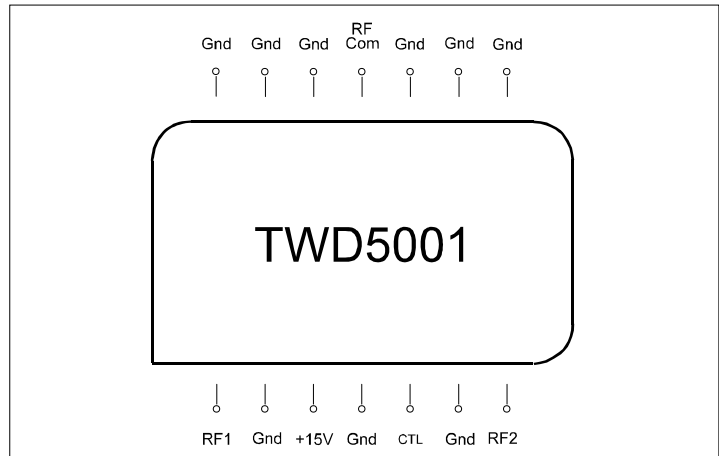
### Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to +100 °C  
 Storage Temperature ..... -65°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +17 Volts  
 Continuous RF Input Power ..... +30 dBm

### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 1000 MHz	10 - 1000 MHz
Insertion Loss (dB)	1.0	2.0 Max.
Isolation (dB)	45	25 Min.
VSWR	1.2:1	1.5:1 Max.
DC Bias	Vdc mA	+15V 15
Switching Speed (µsec)	3	4 Max.
Transients	750	—
1dB Compression (dBm)	+23	—
Intercept Points (dBm)	IP2 +65	IP3 +40

### Pin Layout

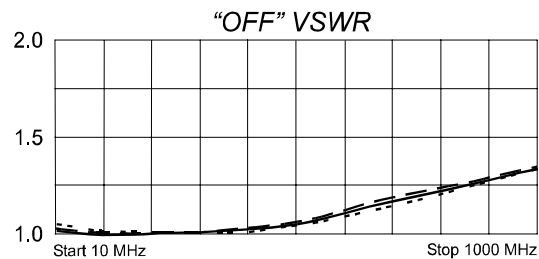
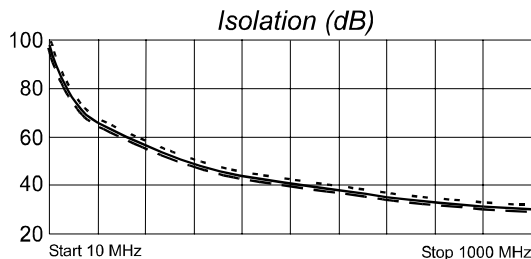
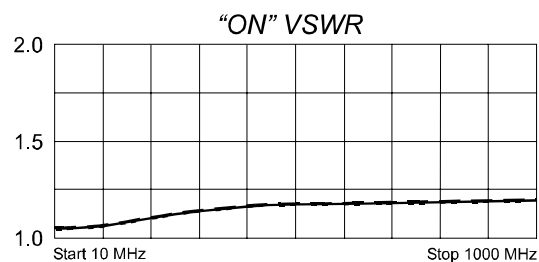
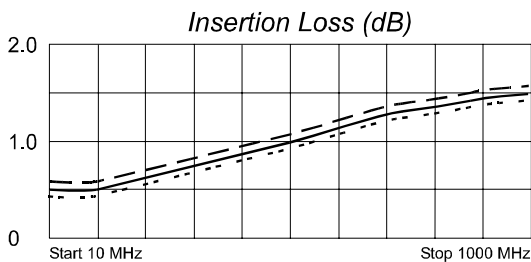


Note: Care should always be taken to effectively ground the case of each unit.

### Truth Table

Control Input	Switch Position
TTL	RF Common Connected To
1	RF1
0	RF2

### Typical Performance Data



Legend ——— + 25 °C - - - - - +85 °C - - - - - -55 °C



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