

# 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
- Operating Temp. -55 °C to + 85 °C
- Environmental Screening Available

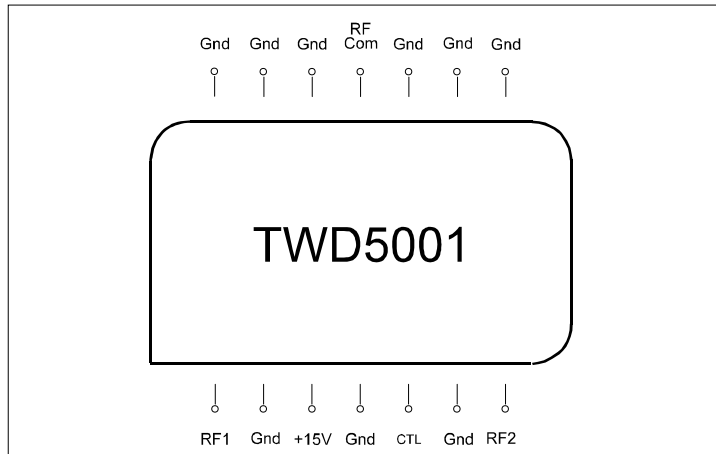
### Maximum Ratings

- 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	+15 Max. 23 Max.
Switching Speed (µsec)	3	4 Max.	
Transients	750	—	
1dB Compression (dBm)	+23	—	
Intercept Points (dBm)	IP2 +65	IP3 +40	—

### Pin Layout

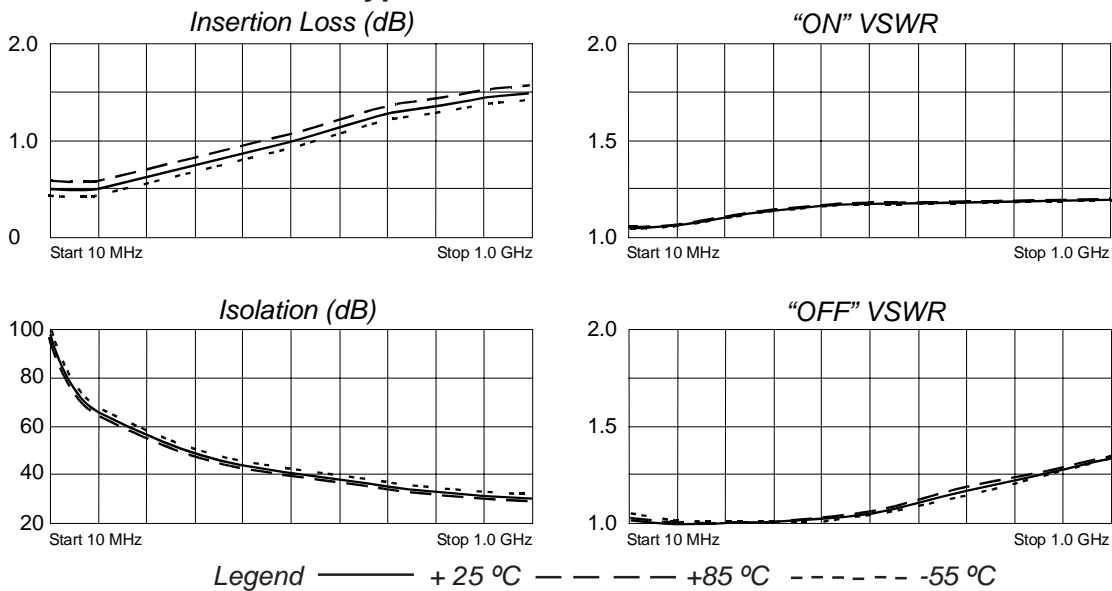


### Truth Table

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

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

### Typical Performance Data



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