

# SPST RF SWITCH

## MODEL TWD2216

Package: 14 Pin DIP (DP3)

Also Available In: Connectorized Housings

### Features

- 5 - 3000 MHz
- RF2 Terminated in 'OFF' State
- Integral CMOS Driver
- OperatingTemp. -55 °C to +85 °C
- Environmental Screening Available

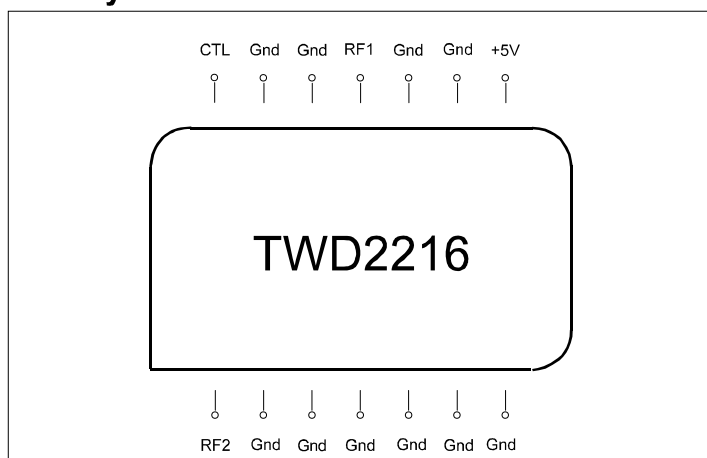
### Maximum Ratings

Ambient Operating Temperature ..... -55°C to +100 °C  
 Storage Temperature ..... -65°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +6.0 Volts  
 Continuous RF Input Power ..... +30 dBm

### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 3000 MHz	5 - 3000 MHz
Insertion Loss (dB)		
5 - 1000 MHz	0.8	1.2 Max.
5 - 2000 MHz	1.2	1.5 Max.
5 - 3000 MHz	1.8	2.2 Max.
Isolation (dB)		
5 - 1000 MHz	50	46 Min.
5 - 2000 MHz	36	34 Min.
5 - 3000 MHz	31	29 Min.
VSWR "ON"/"OFF"		
5 - 1000 MHz	1.25:1	1.4:1 Max.
5 - 2000 MHz	1.5:1	1.6:1 Max.
5 - 3000 MHz	1.5:1	1.7:1 Max.
1dB Compression (dBm)		
50 MHz	+18.5	+18.0 Min.
500 - 3000 MHz	+24.0	+22.0 Min.
Switching Speed (ns) (50% TTL to 90% RF)	60	70 Max.
DC Bias (mA) (4.5 to 5.5 VDC)	0.025	1.0 Max.

### Pin Layout

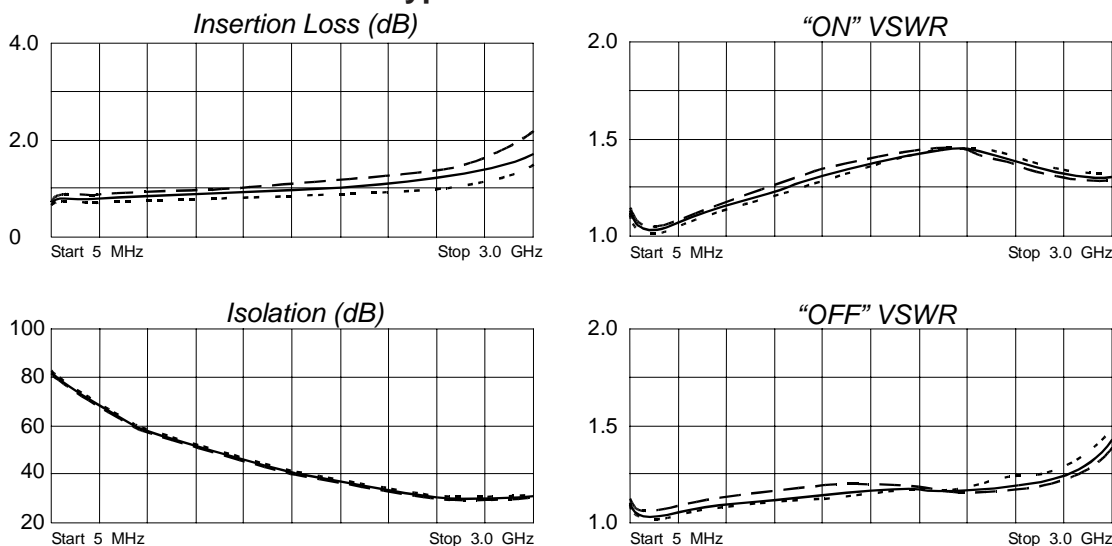


### Truth Table

Control Input CMOS	Switch Position RF1 To RF2
0	"OFF"
1	"ON"

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

### Typical Performance Data



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



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