

# SPST RF Switch

RF2 Terminated in "OFF" State

# Model TWD2215

5 to 3000 MHz

## Features

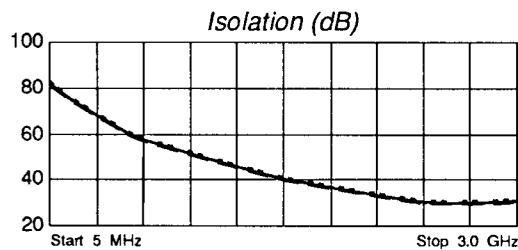
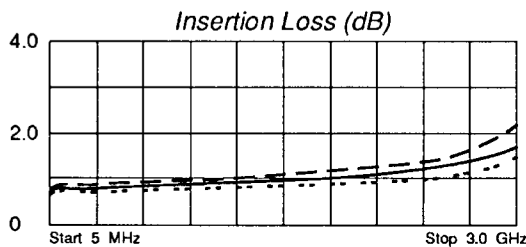
- 5 - 3000 MHz
- RF2 Terminated in 'OFF' State
- Integral TTL Driver
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening available

## Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to +85 °C
<b>Frequency</b>	5 - 3000 MHz	5 - 3000 MHz
<b>Insertion Loss (dB)</b>		
5 - 1000 MHz	0.8	1.2 Max.
5 - 2000 MHz	1.2	1.5 Max.
5 - 3000 MHz	1.8	2.2 Max.
<b>Isolation (dB)</b>		
5 - 1000 MHz	50	46 Min.
5 - 2000 MHz	36	34 Min.
5 - 3000 MHz	31	29 Min.
<b>VSWR "ON"/"OFF"</b>		
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.
<b>1 dB Compression (dBm)</b>		
50 MHz	+18.5	+18.0 Min.
500 - 3000 MHz	+24	+22.0 Min.
<b>Switching Speed (nsec)</b> (50% TTL to 90% RF)	15	30 Max.
<b>DC Bias (mA)</b> (4.5 to 5.5 VDC)	0.025	1.0 Max.

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

## Typical Performance Data



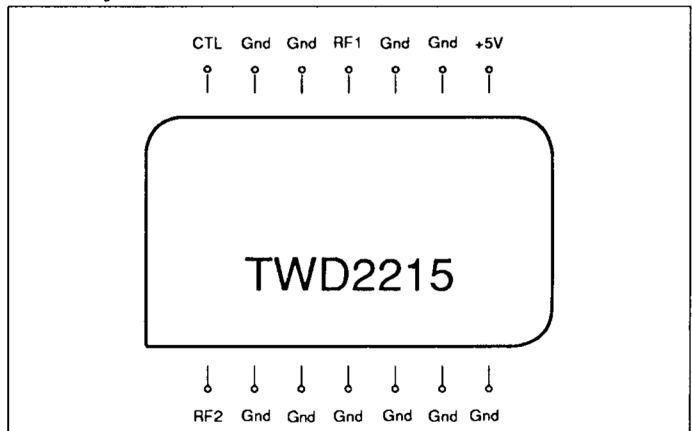
## Maximum Ratings

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

## Packaging Options (see Appendix)

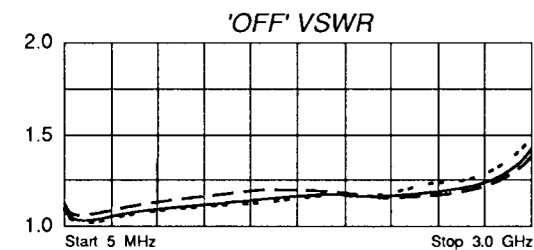
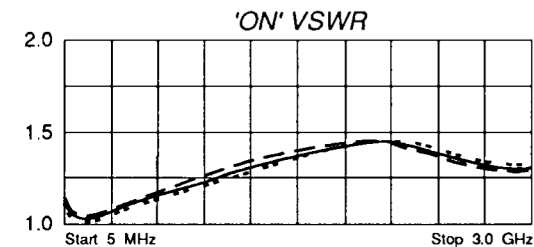
14 Pin DIP (DP3)

## Pin Layout



## Truth Table

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



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

