

# SPDT RF SWITCH

## MODEL TWP2233

Available in:  
0.82" x 0.49" 14 Pin Flatpack  
and Connectorized Housings

### Features

- 5 - 2000 MHz
- Fast Switching Speed: 12 ns Typical (GaAs)
- Integral TTL Driver
- OperatingTemp. -55 °C to + 85 °C
- Screening to the tables of MIL-STD-883 available

### Specifications

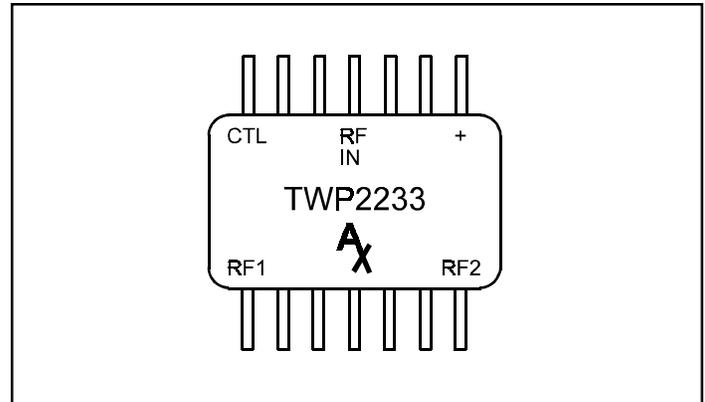
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 2000 MHz	5 - 2000 MHz
Insertion Loss (dB)	1.5	2.0 Max.
Isolation (dB)	43	40 Min.
VSWR	1.25:1	1.75:1 Max.
Dc Vdc	+5.0	+5.0
Blas mA	0.01	0.05 Max.
Switching Speed (nsec)	12	20 Max.
Transients (mV)	100	—
1dB Compression (dBm)		
0.05 GHz	+15	—
0.5 - 2 GHz	+25	—
Intercept Points (dBm)	IP2 IP3	
0.05 GHz	+40 +30	—
0.5 - 2 GHz	+65 +42	—

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

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
Storage Temperature ..... -65°C to + 125 °C  
Case Temperature ..... + 125 °C  
DC Voltage ..... + 7.0 Volts  
Continuous RF Input Power ..... +30 dBm

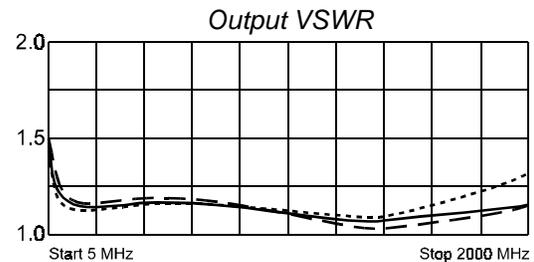
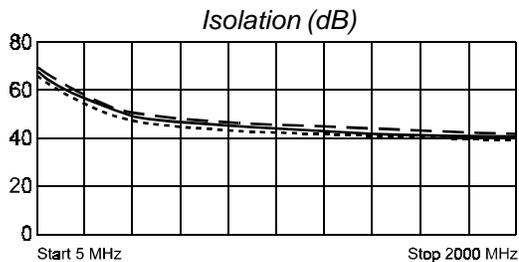
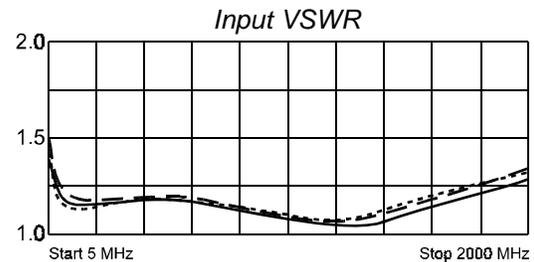
### Pin Layout



### Truth Table

Control Input	Switch Condition	
TTL	RF Common to RF Throw	
	RF1	RF2
0	ON	OFF
1	OFF	ON

### Typical Performance Data



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



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