

SPST RF SWITCH

MODEL *TWP2231*

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

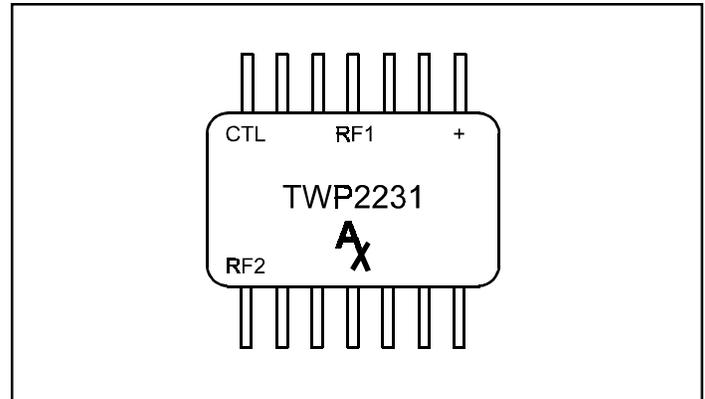
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 3000 MHz	5 - 3000 MHz
Insertion Loss (dB)	1.5	2.5 Max.
Isolation (dB)	40	30 Min.
VSWR	1.75:1	2.3:1 Max.
Dc Bias	Vdc +5.0 mA 0.01	+5.0 0.05 Max.
Switching Speed (nsec)	12	20 Max.
Transients (mV)	80	—
1dB Compression (dBm)		
0.05 GHz	+16	—
0.5 - 2 GHz	+27	—
Intercept Points (dBm)	IP2 IP3	
0.05 GHz	+45 +37	—
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

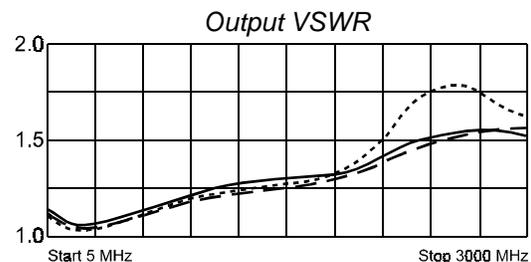
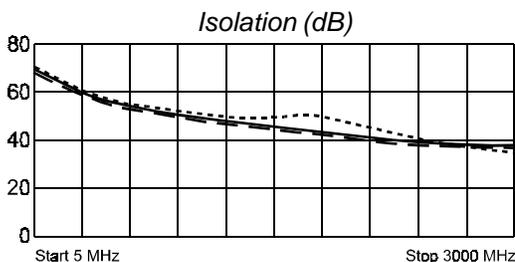
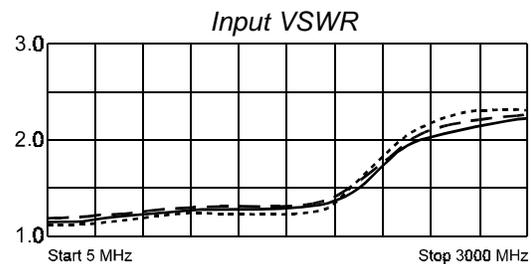
Pin Layout



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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