

SPST RF SWITCH

MODEL TWP2231

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

Features

- 5 - 3000 MHz
- Fast Switching Speed: 30 ns Typical (GaAs)
- Integral TTL Driver
- Operating Temp. -55 °C to + 85 °C
- Absorptive
- RF2 Terminated in OFF Condition

Specifications

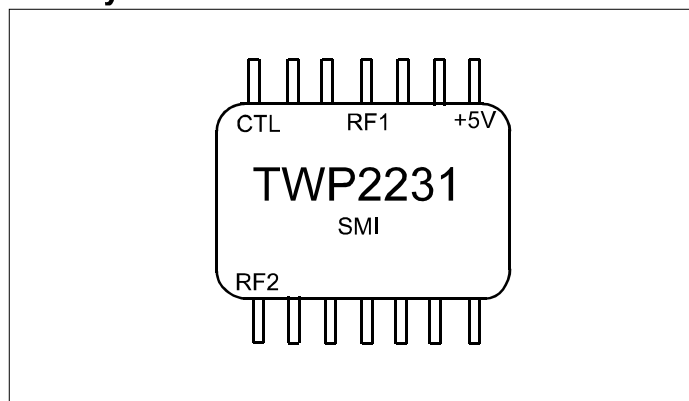
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 3000 MHz	5 - 3000 MHz
Insertion Loss (dB)	1.5	2.5 Max.
Isolation (dB)	45	30 Min.
VSWR	1.75:1	2.3:1 Max.
DC Vdc	+5.0	+5.0
Blas mA	0.01	0.05 Max.
Switching Speed (ns)	30	—
Transients (mV)	80	—
1dB Compression (dBm)		
50 MHz	+16	—
500 - 2000 MHz	+27	—
Intercept Points (dBm)	IP2 IP3	
50 MHz	+45 +37	—
500 - 2000 MHz	+65 +42	—

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

Absolute Maximum (No Damage) 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

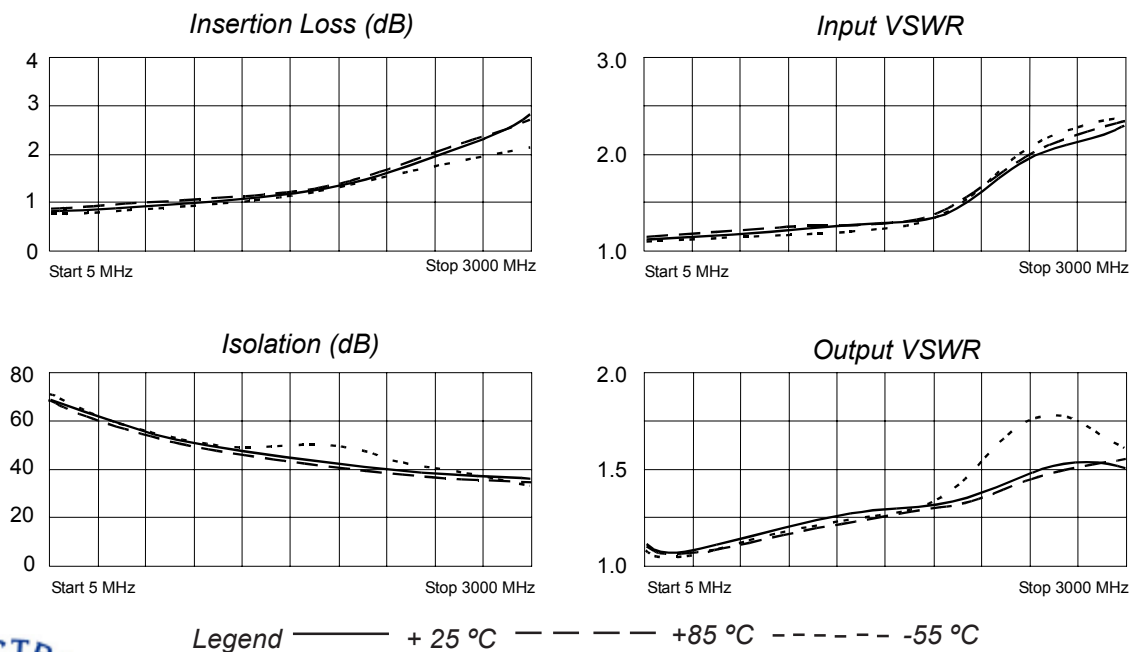
Pin Layout



Truth Table

Control Input	Switch Condition
TTL	
0	OFF
1	ON

Typical Performance Data



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

Rev.
10/22/10

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001