

SPDT RF SWITCH MODEL TWP2219

Package: 8 Lead Flatpack (FP7)
Also Available In: Connectorized Housings

Features

- DC - 3000 MHz
- Low Power Consumption: < 250 μ W Typical
- Fast Switching Speed: 10 ns Typical
- Reflective
- Environmental Screening Available

Absolute Maximum (No Damage) Ratings

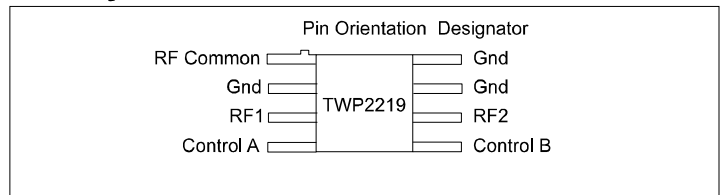
Ambient Operating Temperature -55°C to +100 °C
Storage Temperature -65°C to +125 °C
Case Temperature +125 °C
DC Voltage -8.5 Volts
Continuous RF Input Power +30 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	DC - 3000 MHz	DC - 3000 MHz
Insertion Loss (dB)	0.6	0.9 Max.
Isolation (dB)	40	23 Min.
VSWR	In <1.25:1 Out <1.25:1	1.5:1 Max. 1.5:1 Max.
Control	Vdc -5.0 to -8.0	-8.0 Max.
Input High	mA 0.150	0.500 Max.
Control	Vdc 0 to -0.2	0 Max.
Input Low	mA 0.010	0.030 Max.
Switching Speed (ns)	10	—

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

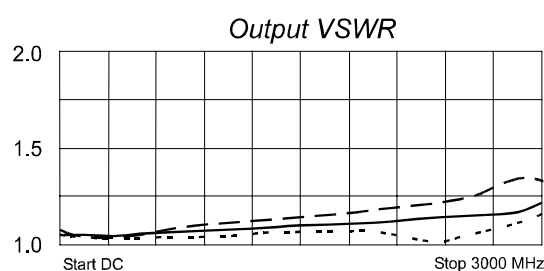
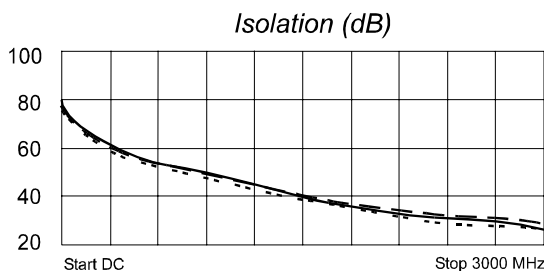
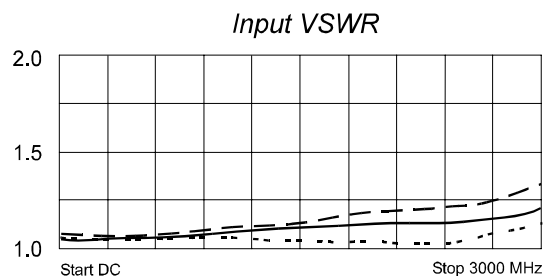
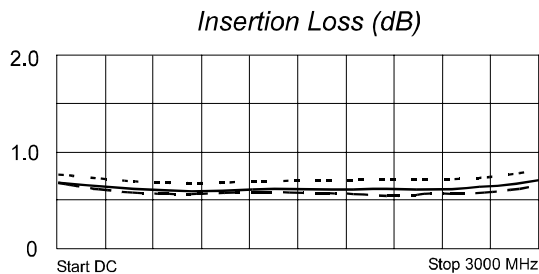
Pin Layout



Truth Table

Control Input		Switch Position	
		RF Common to:	
A	B	RF1	RF2
High	Low	ON	OFF
Low	High	OFF	ON

Typical Performance Data



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



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