

# SPDT RF SWITCH MODEL TWP2219

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

## Features

- DC - 3.0 GHz
- Low Power Consumption: < 250  $\mu$ W Typical
- Fast Switching Speed: 10 ns Typical
- Operating Temp. -55 °C to + 85 °C
- Environmental Screening Available

## Maximum Ratings

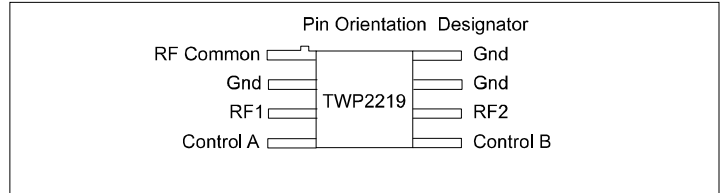
Ambient Operating Temperature ..... -55°C to +100 °C  
Storage Temperature ..... -65°C to +125 °C  
Case Temperature ..... +125 °C  
DC Voltage ..... -8.5 Volts  
Continuous RF Input Power ..... +30 dBm

## Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C	
Frequency	DC - 3.0 GHz	DC - 3.0 GHz	
Insertion Loss (dB)	0.6	0.9 Max.	
Isolation (dB)	>27	25 Min.	
VSWR	In Out	<1.25:1 <1.25:1	1.5:1 Max. 1.5:1 Max.
Control Input High	Vdc mA	-5.0 to -8.0 0.150	-8.0 Max. 0.500 Max.
Control Input Low	Vdc mA	0 to -0.2 0.010	0 Max. 0.030 Max.
Switching Speed (ns)	10	15 Max.	

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

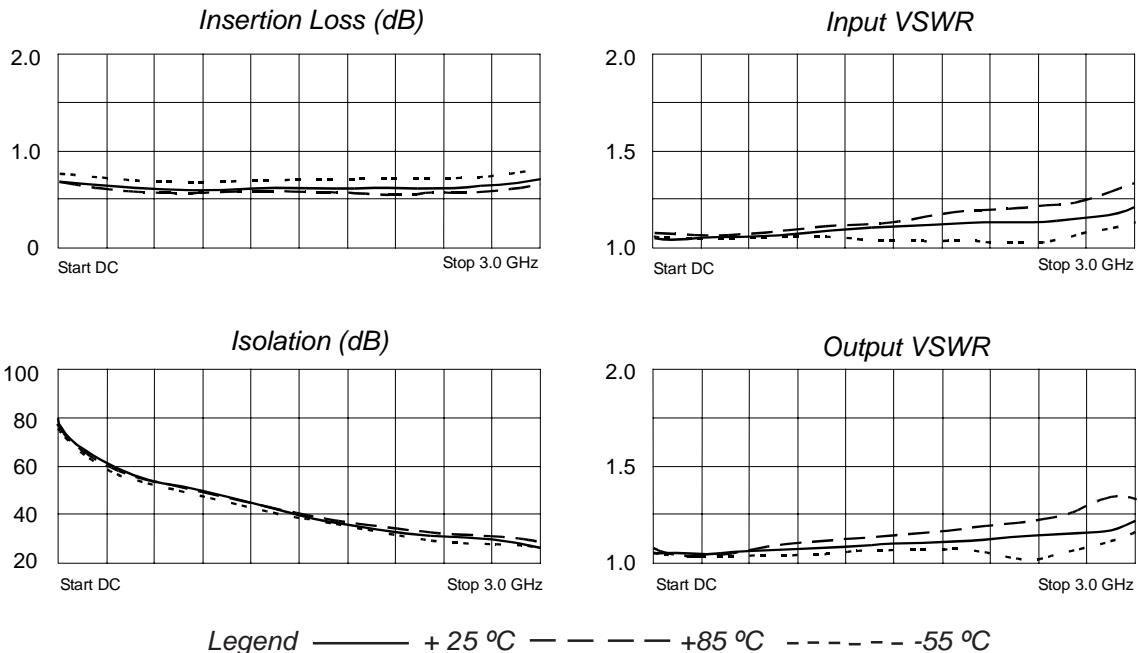
## Pin Layout



## Truth Table

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

## Typical Performance Data



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