

# SPST RF SWITCH

## MODEL TWP2214

Package: 6 Lead Flatpack (FP12)  
Also Available In: Connectorized Housings

### Features

- DC - 3.0 GHz
- RF2 Terminated in "OFF" Position
- Fast Switching Speed: 10 ns Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

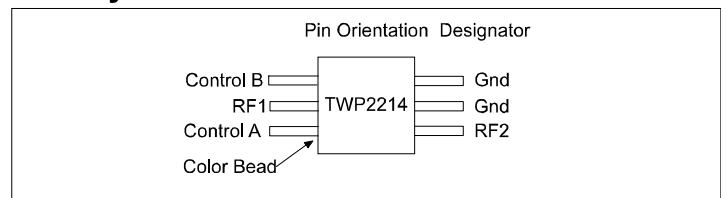
### Maximum Ratings

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)	0.8	1.5 Max.
Isolation (dB)	≥40	27 Min.
VSWR	In <1.25:1 Out <1.5:1	1.8:1Max. 1.8:1 Max.
Control Input High	Vdc -5.0 to -8.0 mA 0.05	-8.0 Max. 0.30 Max.
Control Input Low	Vdc 0 to -0.2 mA 0.010	0 Max. 0.030 Max.
Switching Speed (ns)	10	10 Max.

### Pin Layout

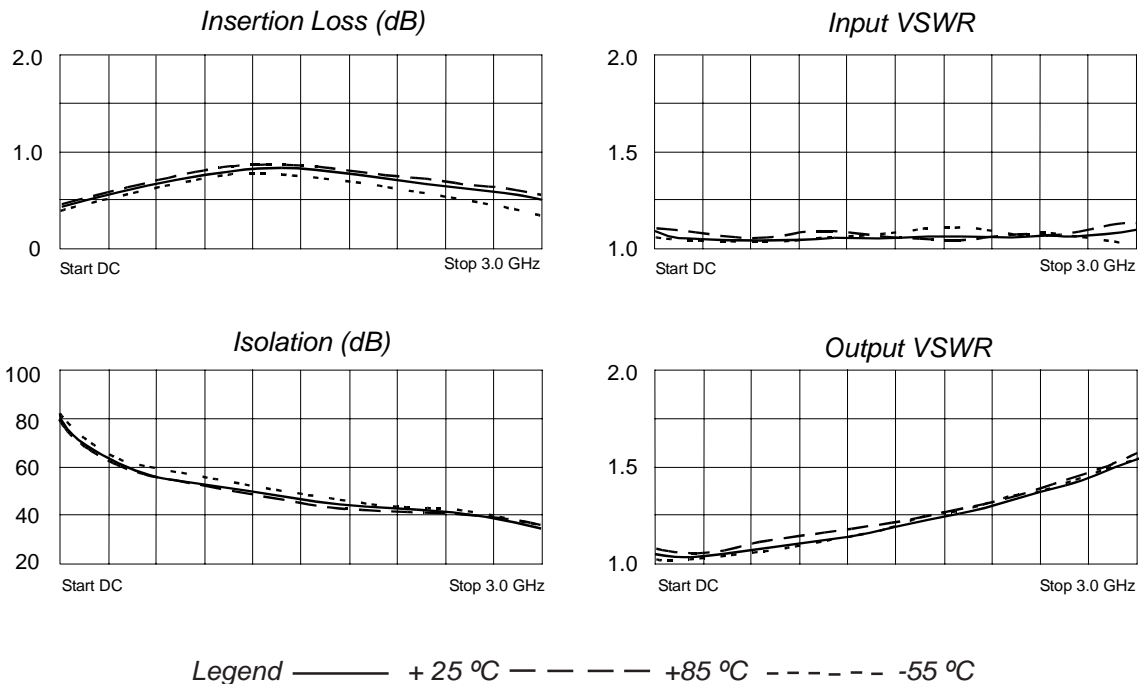


### Truth Table

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

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

### Typical Performance Data



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