

# SPDT RF Switch

Fast Switching Speed: 6 ns

# Model TWP2202

DC to 3.0 GHz

## Features

- DC - 3.0 GHz
- Fast Switching Speed: 6 ns Typical
- RF1, RF2 Reflective in 'OFF' Position
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening available

## Specifications

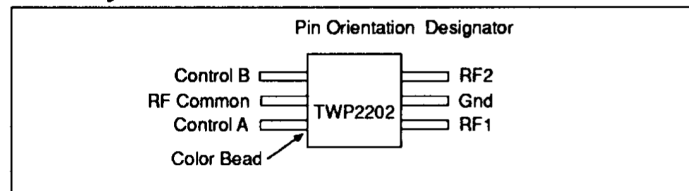
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to + 85 °C
Frequency	DC - 3.0 GHz	DC - 3.0 GHz
Insertion Loss (dB)	1.0	1.4 Max.
Isolation (dB)	≥ 30	23 Min.
VSWR	In <1.4:1 Out <1.4:1	1.5:1 Max. 1.5:1 Max.
Control Input High	Vdc - 5.0 to - 8.0 mA 0.30	- 8.0 Max. 1.00 Max.
Control Input Low	Vdc 0 to - 0.2 mA 0.010	0 Max. 0.030 Max.
Switching Speed (nsec)	6	10 Max.

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

## 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  
 Packaging Options (see Appendix)  
 6 Lead Flatpack (FP12)

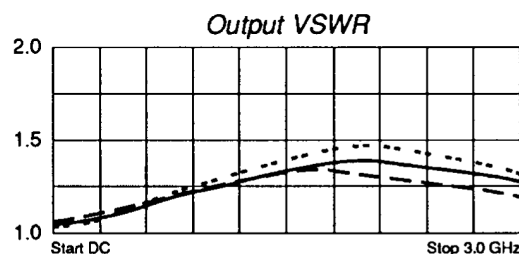
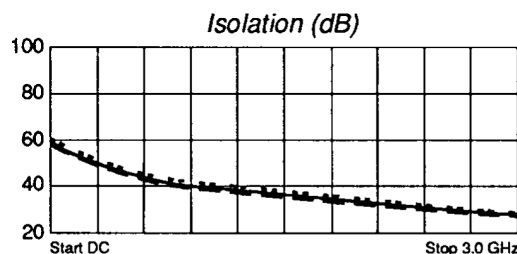
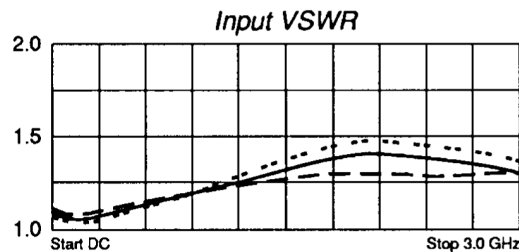
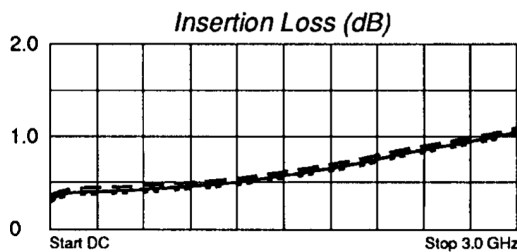
## Pin Layout



## 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

