

SP3T RF SWITCH

MODEL TWP2248

Package: FP14 - 16 Lead Flatpack
Also Available in: Connectorized Housings

Features

- 5-2000 MHz; Integral TTL Driver
- Fast Switching Speed: 20 ns Typical (GaAs)
- RF1-RF3 Terminated in "OFF" State
- Operating Temp. -55 °C to + 85 °C
- Environmental Screening Available

Specifications

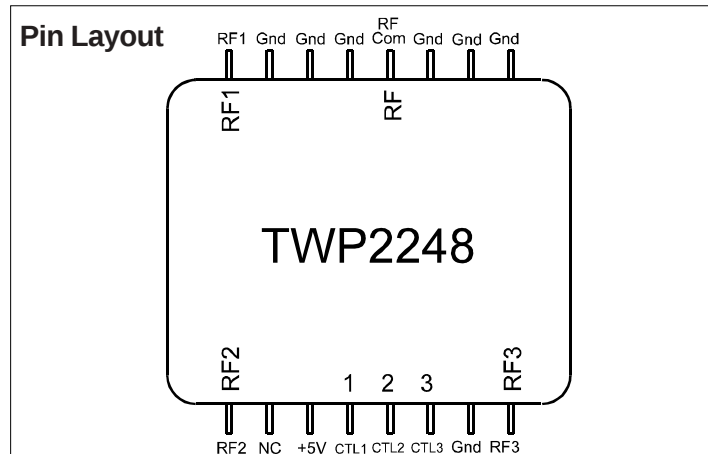
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5-2000 MHz	5-2000 MHz
Insertion Loss (dB)	1.2	2.0 Max.
Isolation (dB)	45	34 Min.
VSWR "ON"	1.8:1	2.0:1 Max.
DC Bias	Vdc mA	+ 5 V 1.0 Max.
Switching Speed (ns)	20	40 Max.
Transients (mV)	80	—
1 dB Compression (dBm)		
0.05 GHz	21	—
0.5 -2 GHz	27	—
Intercept Points (dBm)	IP ₂ IP ₃	
0.05 GHz	+62 +40	—
0.5 - 2 GHz	+68 +46	—

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

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

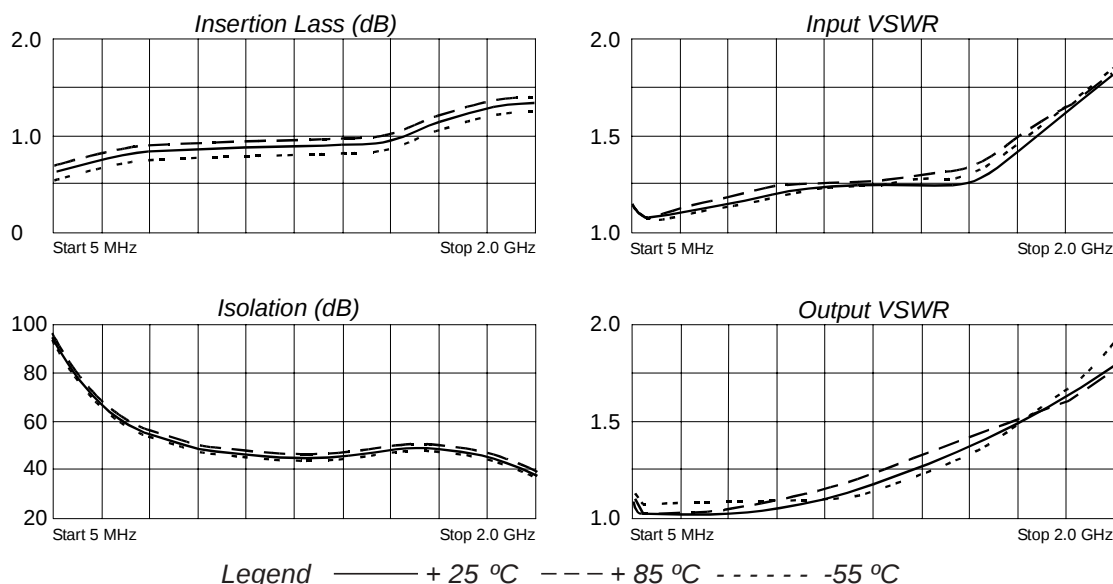
Pin Layout



Truth Table

Control Input	Switch Position
TTL	RF Common to RF Throw
1	Low Loss ("ON")
0	Isolated ("OFF")

Typical Performance Data



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