

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
- Environmental Screening Available

Specifications

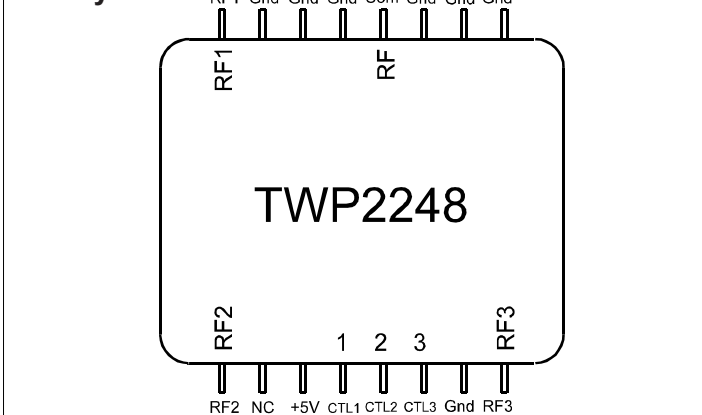
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 2000 MHz	5 - 2000 MHz
Insertion Loss (dB)	1.2	2.0 Max.
Isolation (dB)	45	34 Min.
VSWR "ON"	1.8:1	2.0:1 Max.
DC Vdc	+ 5	+ 5 Max.
Bias mA	0.5	1.0 Max.
Switching Speed (ns)	20	—
Transients (mV)	80	—
1 dB Compression (dBm)		
50 MHz	21	—
500 - 2000 MHz	27	—
Intercept Points (dBm)	IP ₂ IP ₃	
50 MHz	+62 +40	—
500 - 2000 MHz	+68 +46	—

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

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 +7.0 Volts
 Continuous RF Input Power +30 dBm

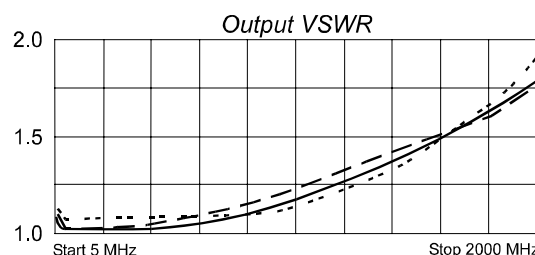
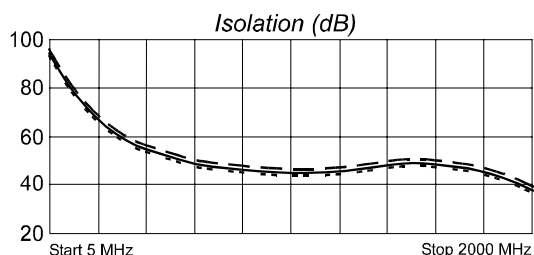
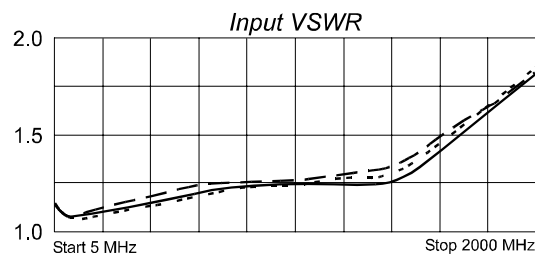
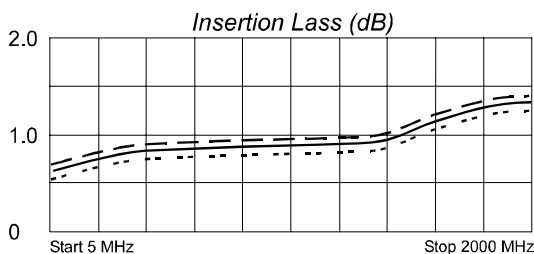
Pin Layout



Truth Table

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

Typical Performance Data



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



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