

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: 15 ns Typical (GaAs)
- RF1 - RF3 Reflective in "OFF" State
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening available

Maximum Ratings

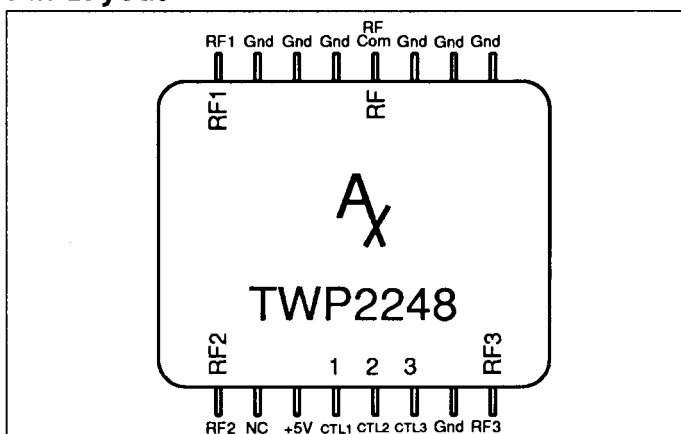
Ambient Operating Temperature - 55 °C to + 100 °C
Storage Temperature - 65 °C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 7.0 Volts
Continuous RF Input Power +30 dBm

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'	1.5:1	2.0:1 Max.
DC Bias Vdc Bias mA	+5 V 0.5	+5 V Max. 1.0 Max.
Switching Speed (nsec)	15	40 Max.
Transients (mV)	80	—
1 dB Compression (dBm) 0.05 GHz 0.5 - 2 GHz	21 27	— —
Intercept Points (dBm) 0.05 GHz 0.5 - 2 GHz	IP ₂ +62 +68 IP ₃ +40 +46	— — —

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

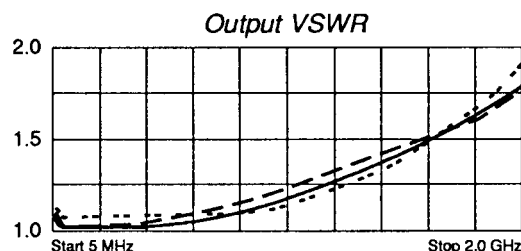
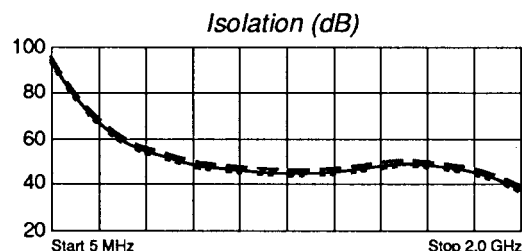
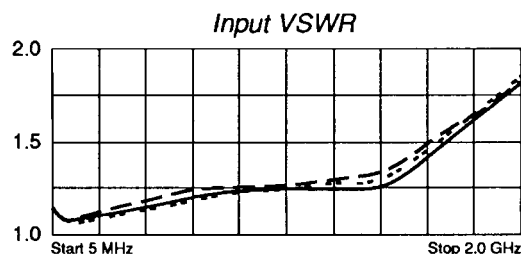
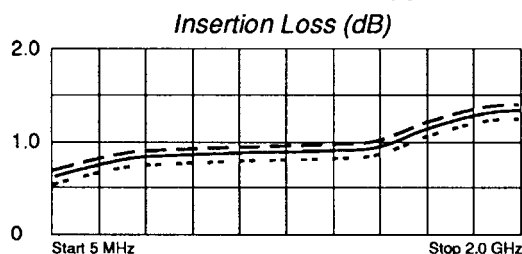
Pin Layout



Truth Table

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

Typical Performance Data



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

Amplifonix

2707 Black Lake Place, Philadelphia, PA 19154

TEL 215-464-4000 • • • • FAX 215-464-4001