

SP3T RF SWITCH

MODEL TWD2241

Package: DP - 10, 16 Pin DIP Package
and 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

Maximum Ratings

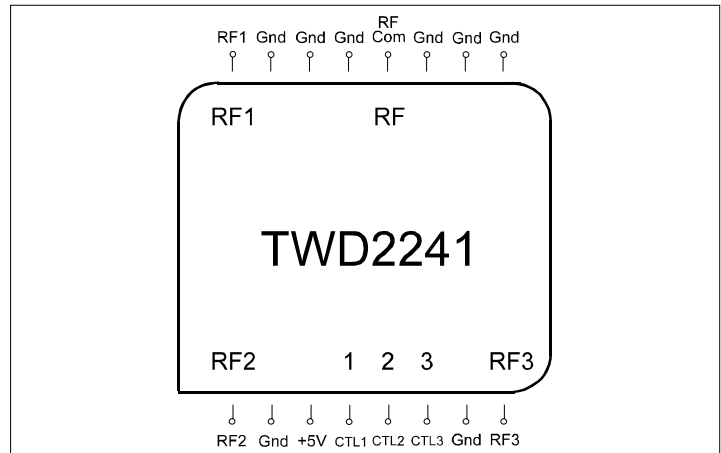
Ambient Operating Temperature -55°C to +100 °C
Storage Temperature -65°C to +125 °C
Case Temperature +125 °C
DC Voltage +7 Volts
Continuous RF Input Power +30 dBm

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	1.8 Max.
Isolation (dB)	50	35 Min.
VSWR	1.5:1	2.0:1 Max.
DC Bias	Vdc mA	+5V 1.0 Max.
Switching Speed (ns)	20	25 Max.
Transients	80	—
1dB Compression (dBm)		
0.05 GHz	21	—
0.5-2 GHz	27	—
Intercept Points (dBm)	IP2 IP3	—
0.05 GHz	+65 +40	—
0.5 - 2 GHz	+68 +46	—

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

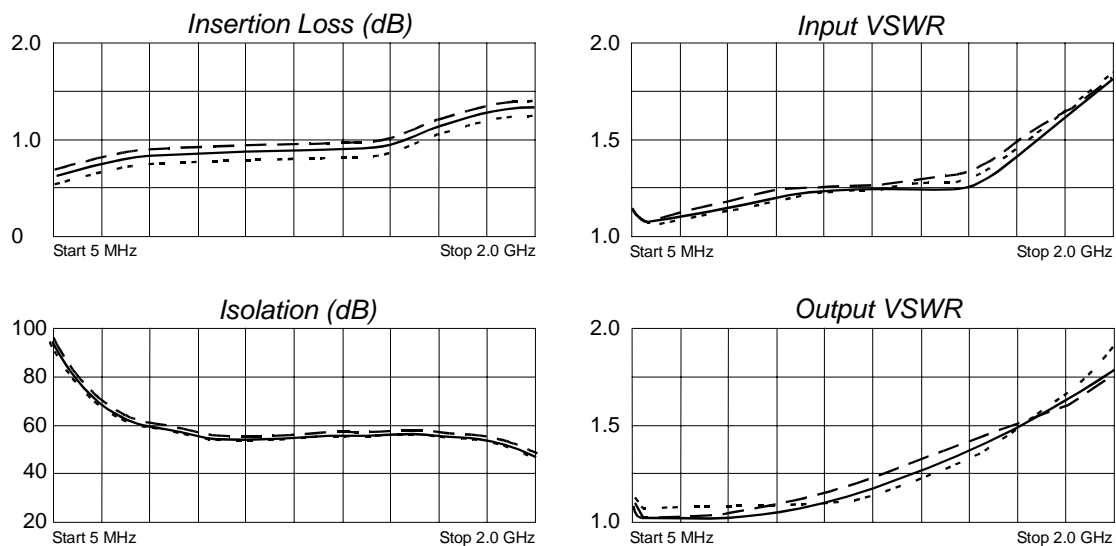
Pin Layout



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



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