

SPDT RF SWITCH

MODEL TWD2207

Features

- 5 - 2000 MHz
- Fast Switching Speed: 7 ns Typical (GaAs)
- Integral TTL Driver
- OperatingTemp. -55 °C to + 85 °C
- Screening to the tables of MIL-STD-883 available

Specifications

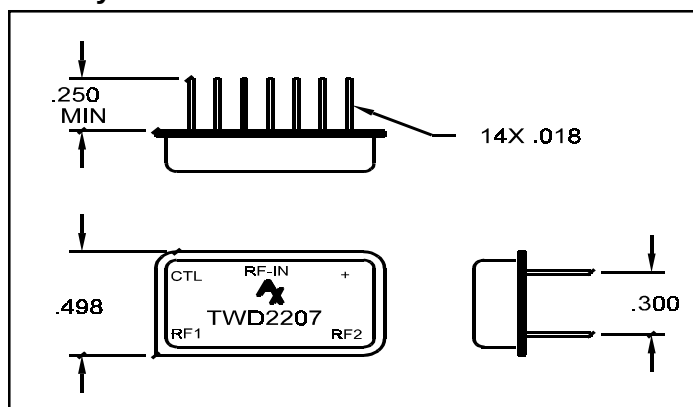
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 2000 MHz	5 - 2000 MHz
Insertion Loss (dB)		
5-2000 MHz	0.8	1.4 Max.
5-1000 MHz	0.5	1.2 Max.
Isolation (dB)		
5-2000 MHz	40	35 Min.
5-1000 MHz	55	38 Min.
VSWR		
5-2000 MHz	1.4:1	1.7:1 Max.
5-1000 MHz	1.2:1	1.5:1 Max.
Dc Bias		
Vdc	+5.0	+5.0
mA	1.0	1.0 Max.
Switching Speed (nsec)	7	20 Max.
Transients (mV)	70	—
1dB Compression (dBm)		
50-500 MHz	+21	—
500-2000 MHz	+27	—
Intercept Points (dBm)	IP2 IP3	
50-500 MHz	+60 +40	—
500-2000 MHz	+68 +46	—

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

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

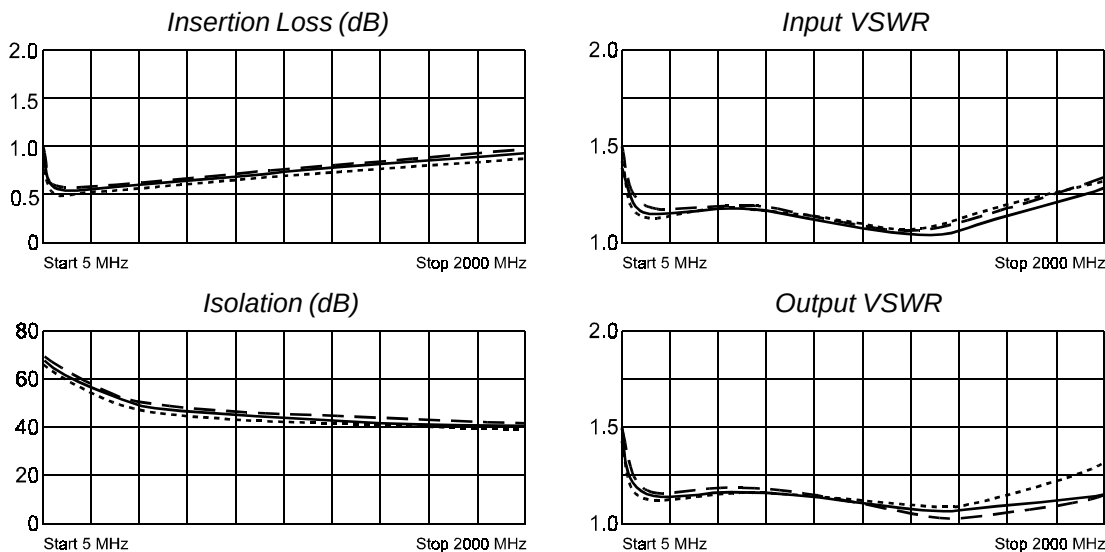
Pin Layout



Truth Table

Control Input	Switch Condition	
TTL	RF Common to RF Throw	
	RF1	RF2
0	ON	OFF
1	OFF	ON

Typical Performance Data



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

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