

SPDT RF SWITCH

MODEL TWD2207

Features

- 5 - 2000 MHz
- Fast Switching Speed: 30 ns Typical (GaAs)
- Integral TTL Driver
- OperatingTemp. -55 °C to + 85 °C
- Screening to the tables of MIL-STD-883 available

Specifications

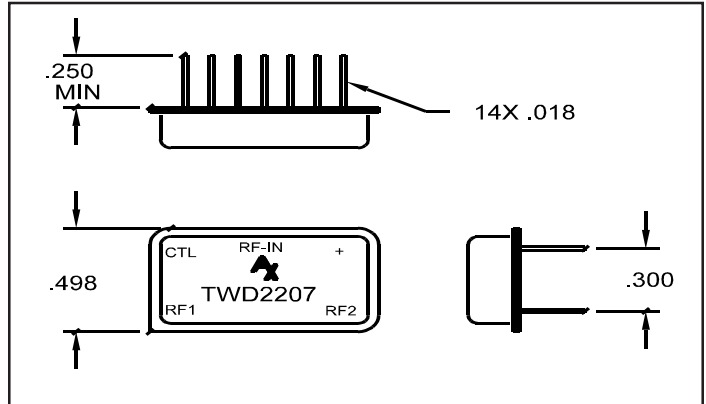
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 2000 MHz	5 - 2000 MHz
Insertion Loss (dB)	5-2000 MHz	0.8
	5-1000 MHz	0.5
Isolation (dB)	5-2000 MHz	40
	5-1000 MHz	55
VSWR	5-2000 MHz	1.4:1
	5-1000 MHz	1.2:1
Dc Bias	Vdc	+5.0
	mA	1.0
Switching Speed (ns)	30	35 Max.
Transients (mV)	70	—
1dB Compression (dBm)	50-500 MHz	+21
	500-2000 MHz	+27
Intercept Points (dBm)	IP2	IP3
	50-500 MHz	+60
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

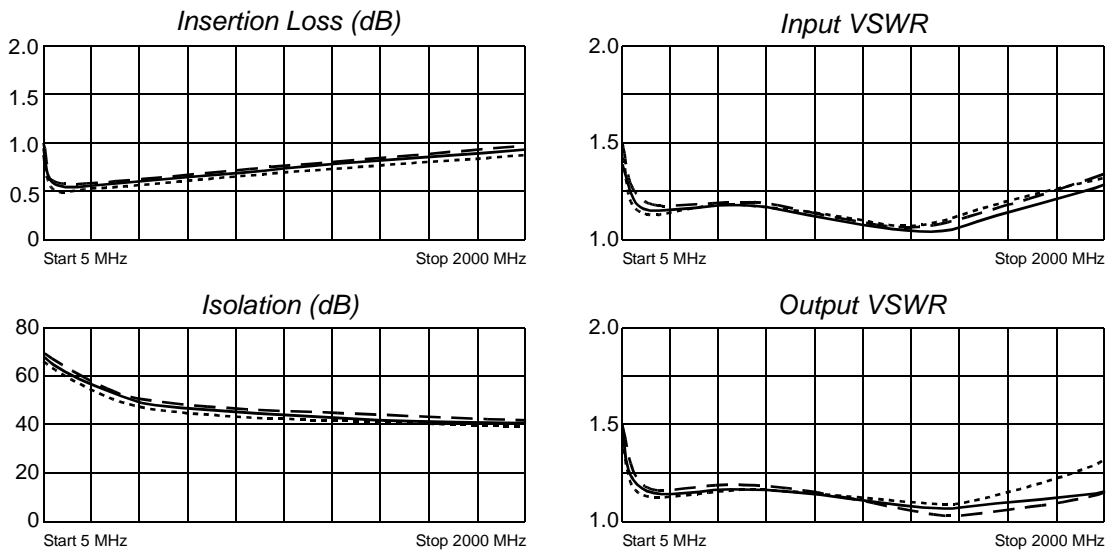
Pin Layout



Truth Table

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

Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

Rev. 3/28/08

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001