

# SPDT RF SWITCH

## MODEL TWD2207

Package: 14 Pin DIP (DP3)  
Also Available in Connectorized Housings

### Features

- 5 - 2000 MHz
- Fast Switching Speed: 30 ns Typical (GaAs)
- Integral TTL Driver
- Absorptive
- Screening to the tables of MIL-STD-883 available

### Absolute Maximum (No Damage) Ratings

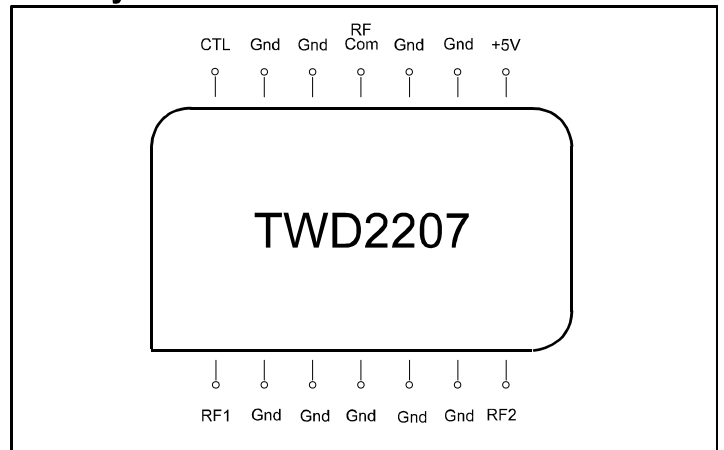
Ambient Operating Temperature ..... -55°C to +100 °C  
Storage Temperature ..... -65°C to +125 °C  
Case Temperature ..... +125 °C  
DC Voltage ..... +7.0 Volts  
Continuous RF Input Power ..... +30 dBm

### 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	+40
	500-2000 MHz	+68	+46

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

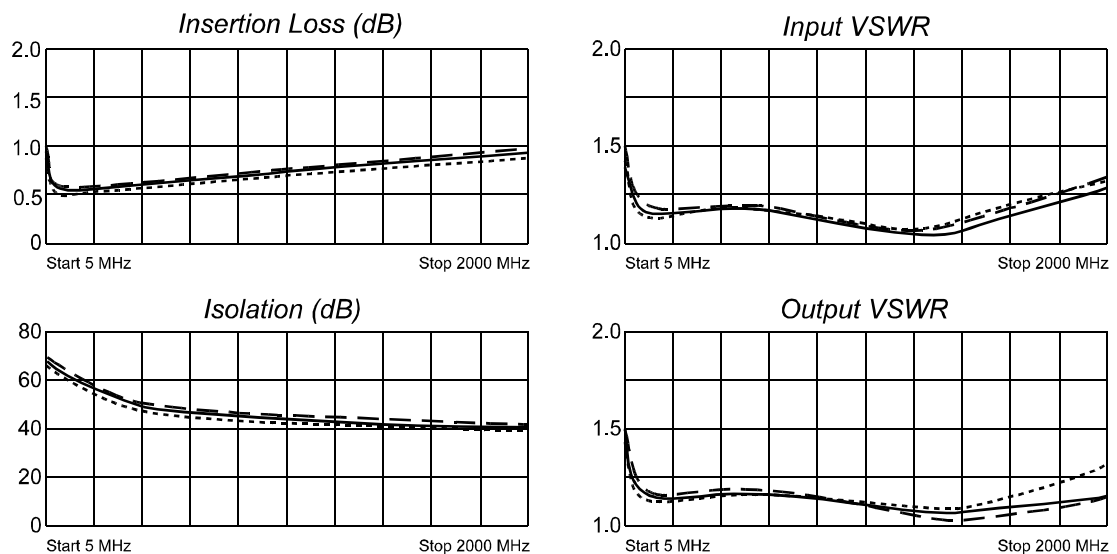
### Pin Layout



### Truth Table

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

### Typical Performance Data



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



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