

# SP4T RF SWITCH

## MODEL TWP2264

Package: FP14 - 16 Lead Flatpack  
 Also Available In: Connectorized Housings

### Features

- 5 - 2000 MHz
- RF1, RF4 Terminated in "OFF" State
- Integral CMOS Driver
- OperatingTemp. -55 °C to + 85 °C
- Environmental Screening Available

### Maximum Ratings

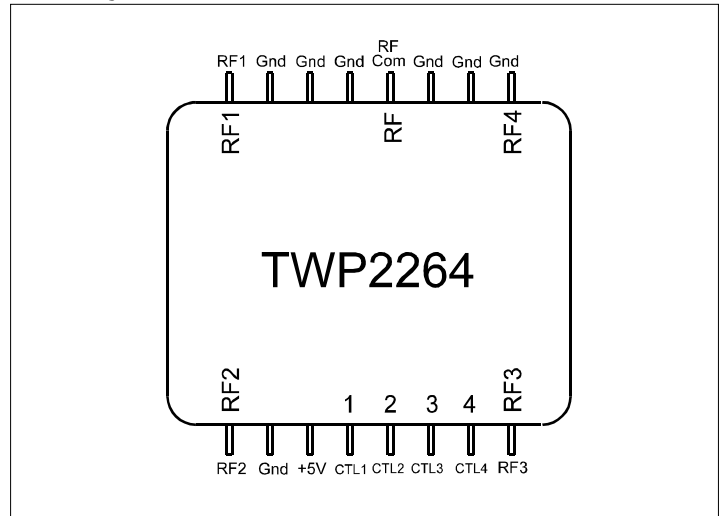
Ambient Operating Temperature ..... -55°C to +100 °C  
 Storage Temperature ..... -65°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +7.0 Volts  
 Continuous RF Input Power ..... +30 dBm

### 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	1.9 Max.
Isolation (dB)	45	35 Min.
VSWR "ON"	1.5:1	2.0:1 Max.
DC Bias	Vdc +5V mA 0.5	+5V Max. 1.0 Max.
Switching Speed Ton/Toff (ns)	40	50 Max.
Transition Time Rise/Fall Time (ns)	20	30 Max.
Transients (mV)	80	—
1dB Compression (dBm)		
0.05 GHz	+21	—
0.5 - 2 GHz	+27	—
Intercept Points (dBm)	IP2 IP3	
0.05 GHz	+62 +40	—
0.5 - 2 GHz	+68 +46	—

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

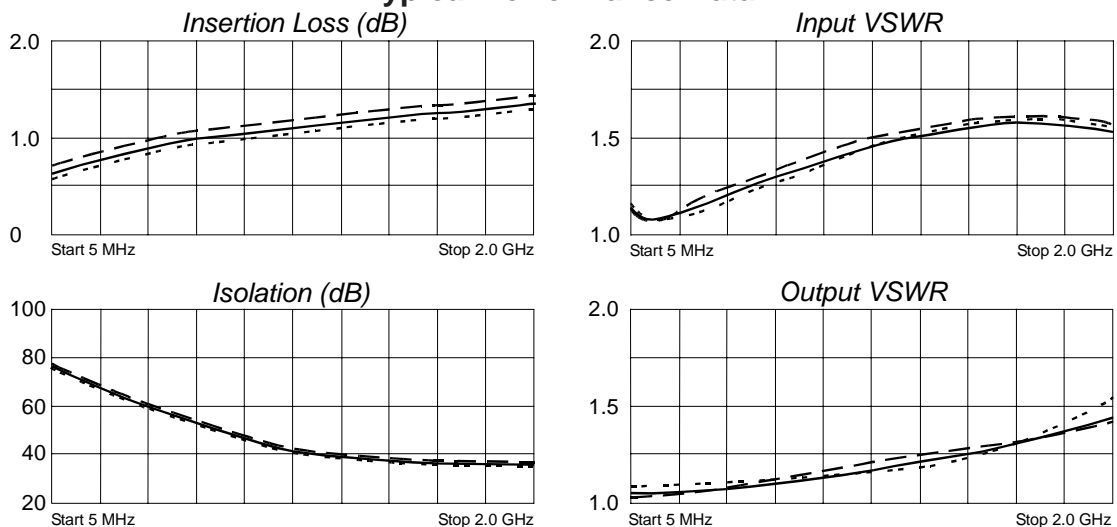
### Pin Layout



### 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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 Rev. 4/1/08

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