

SPDT RF SWITCH

MODEL TWH7230

Available as: TWH7230, 12 Pin TO-8B (T9)
TWN7230, 10 Pin .625" Sq. Gullwing (SG4)

Features

- 10 - 3000 MHz
- RF1, RF2 Reflective in 'OFF' State
- Integral TTL Driver
- Reflective
- Environmental Screening available

Absolute Maximum (No Damage) Ratings

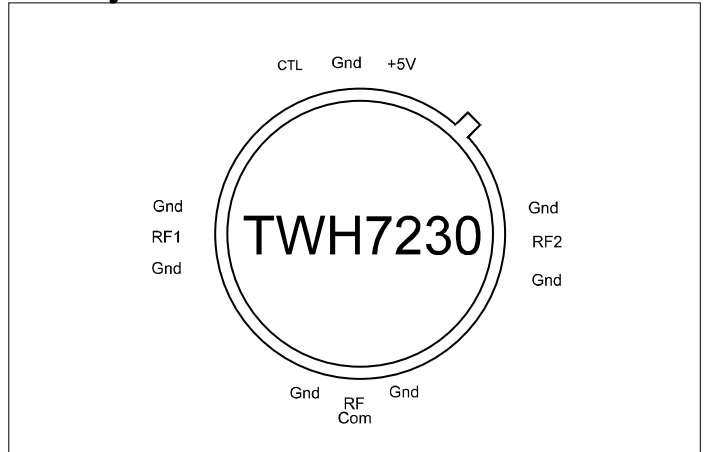
Ambient Operating Temperature -55°C to + 100 °C
Storage Temperature -65°C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 6.0 Volts
Continuous RF Input Power +32 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +100 °C
Frequency	10 - 3000 MHz	10 - 3000 MHz
Insertion Loss (dB)		
10 - 100 MHz	1.0	1.5 Max.
100 - 1500 MHz	1.2	1.6 Max.
1500 - 3000 MHz	1.4	2.4 Max.
Isolation (dB)		
10 - 100 MHz	70	60 Min.
100 - 1500 MHz	45	35 Min.
1500 - 3000 MHz	35	30 Min.
1dB Compression (dBm)		
10 - 100 MHz	18	8 Min.
100 - 1500 MHz	27	20 Min.
1500 - 3000 MHz	30	29 Min.
VSWR 'ON'	1.3:1	1.6:1 Max.
Switching Speed (µsec) (50% TTL to 90% RF)	2.0	3.0 Max.
DC Bias (mA) (4.5 to 5.5 VDC)	2.4	4.0 Max.

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

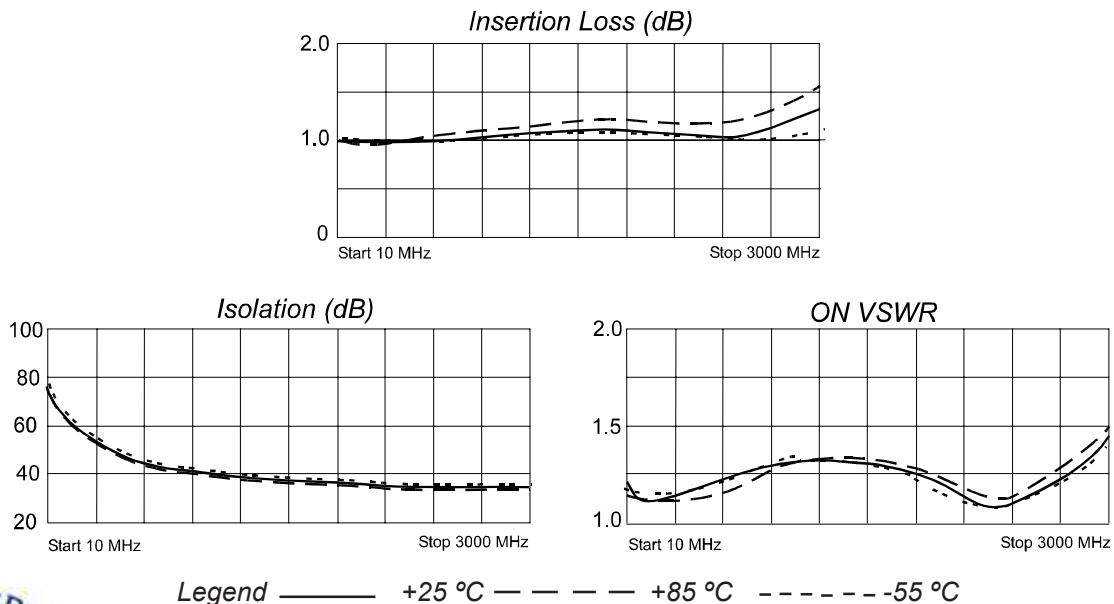
Pin Layout



Truth Table

TTL Control Inputs	Switch Position
TTL	RF Common Connected To
0	RF1
1	RF2

Typical Performance Data



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 Rev. 10/13/10

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