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
- OperatingTemp. -55 ºC to + 100 ºC
- Environmental Screening available

(Absolute) Maximum Ratings

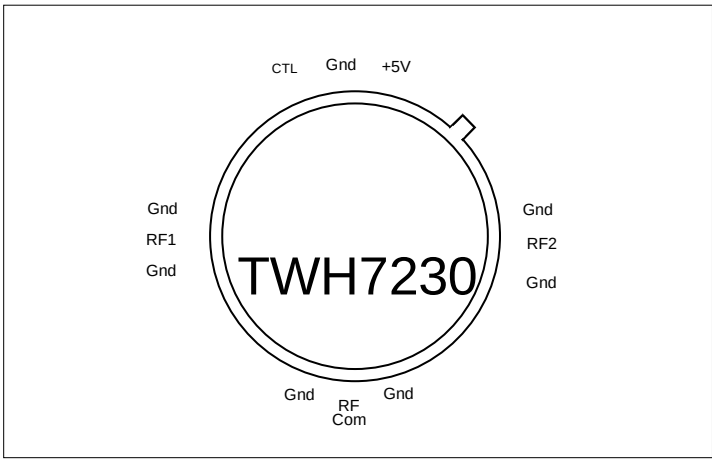
Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -65ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 6.0 Volts
Continuous RF Input Power ..... +32 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 ºC	MIN/MAX Ta = -55 ºC to +100 ºC
Frequency	5 - 3000 MHz	5 - 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

Pin Layout



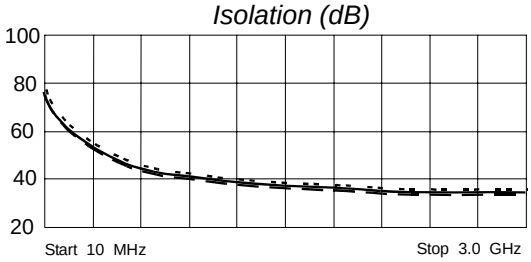
Truth Table

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

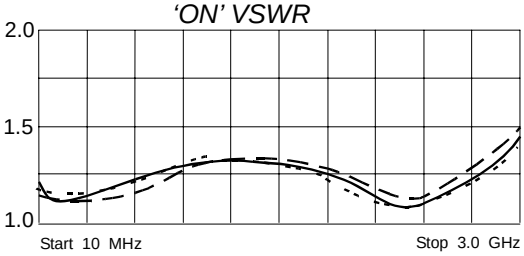
Typical Performance Data

Insertion Loss (dB)

Isolation (dB)



'ON' VSWR



Legend ——— + 25 ºC — — — — +85 ºC - - - - - - -55 ºC

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