SPST RF Switch — Model TWD2215

RF2 Terminated in "OFF" State — 5 to 3000 MHz

Features

- 5 - 3000 MHz
- RF2 Terminated in 'OFF' State
- Integral TTL Driver
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to +85 °C
Frequency	5 - 3000 MHz	5 - 3000 MHz
Insertion Loss (dB)		
5 - 1000 MHz	0.8	1.2 Max.
5 - 2000 MHz	1.2	1.5 Max.
5 - 3000 MHz	1.8	2.2 Max.
Isolation (dB)		
5 - 1000 MHz	50	46 Min.
5 - 2000 MHz	36	34 Min.
5 - 3000 MHz	31	29 Min.
VSWR "ON"/"OFF"		
5 - 1000 MHz	1.25:1	1.4:1 Max.
5 - 2000 MHz	1.5:1	1.6:1 Max.
5 - 3000 MHz	1.5:1	1.7:1 Max
1 dB Compression (dBm)		
50 MHz	+18.5	+18.0 Min.
500 - 3000 MHz	+24	+22.0 Min.
Switching Speed (nsec) (50% TTL to 90% RF)	15	30 Max.
DC Bias (mA) (4.5 to 5.5 VDC)	0.025	1.0 Max.

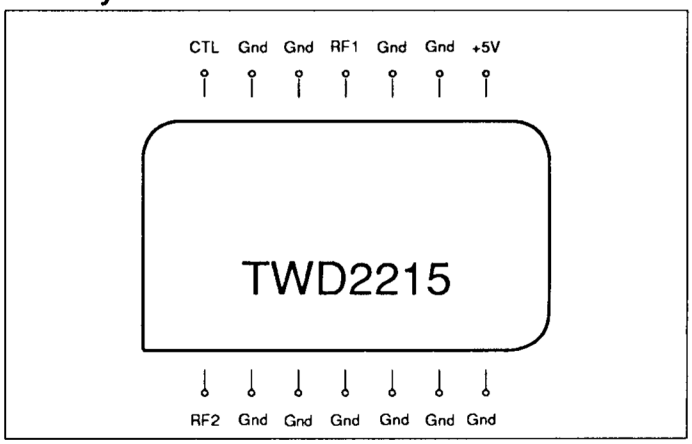
Note: Care should always be taken to effectively ground the case of each unit

Maximum 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 . . . . . +30 dBm

Packaging Options (see Appendix)
14 Pin DIP (DP3)

Pin Layout

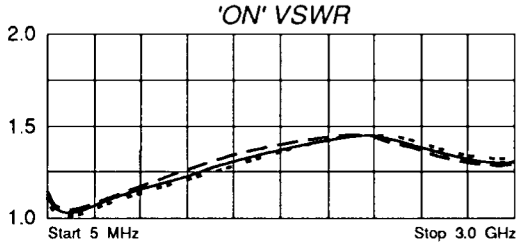


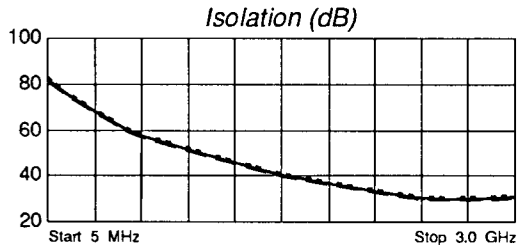
Truth Table

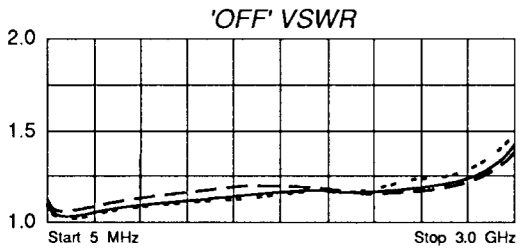
Control Input	Switch Position
TTL	**RF1 To RF2**
0	"OFF"
1	"ON"

Typical Performance Data









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

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