

SPST RF Switch

RF1, RF2 Terminated in "OFF" State

Model TWD5001

10 to 1000 MHz

Features

- 10- 1000 MHz
- RF1, 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	10 - 1000 MHz	10 - 1000 MHz
Insertion Loss (dB)	1.0	2.0 Max.
Isolation (dB)	45	25 Min.
VSWR	1.2:1	1.5:1 Max.
DC Bias	Vdc mA	
	+15 V 15	+15 V Max. 23 Max.
Switching Speed (µsec)	3	4 Max.
Transients (mV)	750	—
1 dB Compression (dBm)	+23	—
Intercept Points (dBm)	IP ₂ +65	IP ₃ +40
		—

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

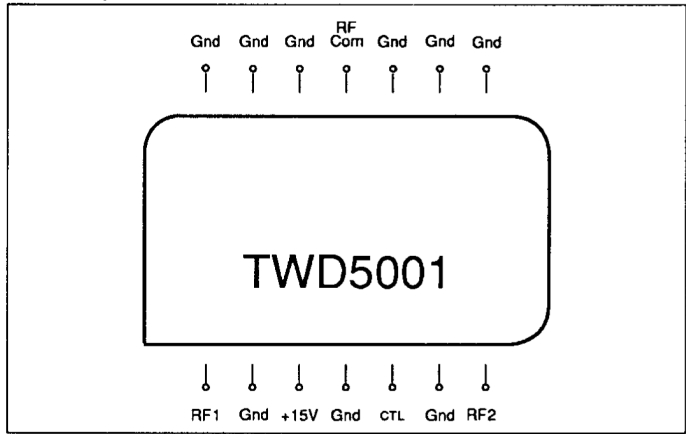
Maximum Ratings

Ambient Operating Temperature - 55 °C to + 100 °C
 Storage Temperature - 65 °C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage +17.0 Volts
 Continuous RF Input Power +30 dBm

Packaging Options (see Appendix)

DP3 - 14 lead DIP Package

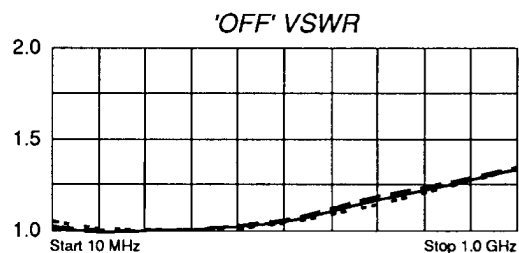
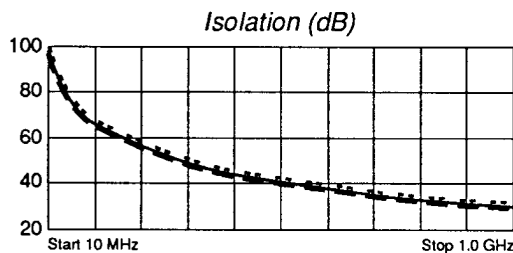
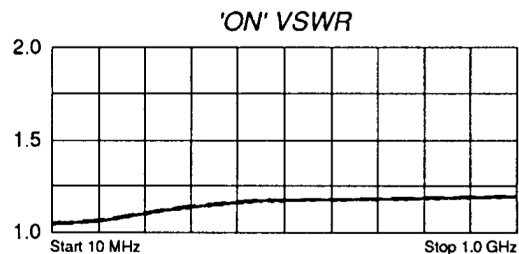
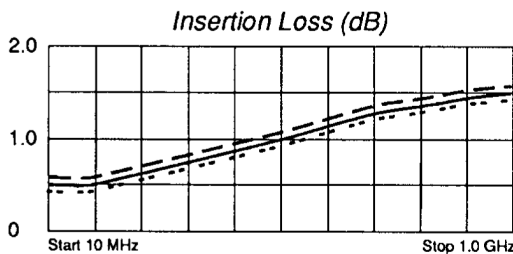
Pin Layout



Truth Table

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

Typical Performance Data



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

