

SPDT RF SWITCH

MODEL TWD5015

Available in: DP-3, 14 Pin DIP Package
and Connectorized Housings

Features

- 20- 1000 MHz
- RF1, RF2 Terminated in 'Off' State
- Integral TTL Driver
- Operating Temp. - 55 °C to + 85 °C
- Screening to the tables of MIL-STD-883 available

Maximum Ratings

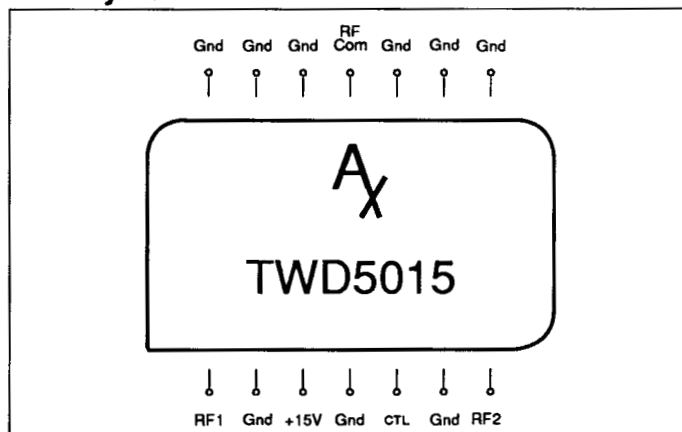
Ambient Operating Temperature - 55 °C to + 100 °C
Storage Temperature - 65 °C to + 125 °C
Case Temperature + 125 °C
DC Voltage +6.0 Volts
Continuous RF Input Power +30 dBm

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to + 85 °C
Frequency	20 - 1000 MHz	20 - 1000 MHz
Insertion Loss (dB)	1.2	2.0 Max.
Isolation (dB)	45	25 Min.
VSWR	1.2:1	1.5:1 Max.
DC Bias Vdc Bias mA	+5 V 15	+5 V 23 Max.
Switching Speed (μsec)	0.7	1.0 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

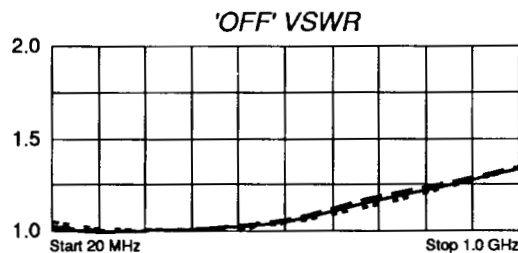
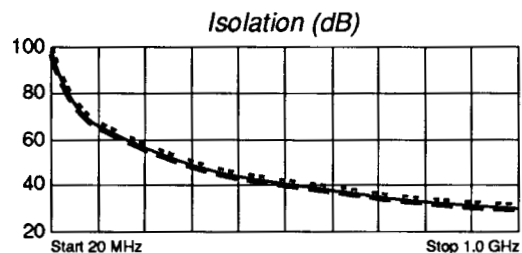
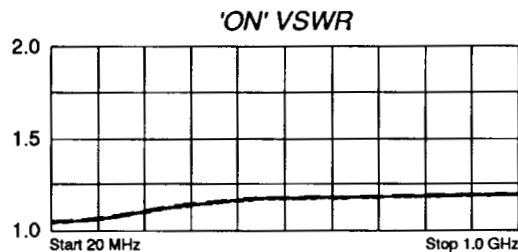
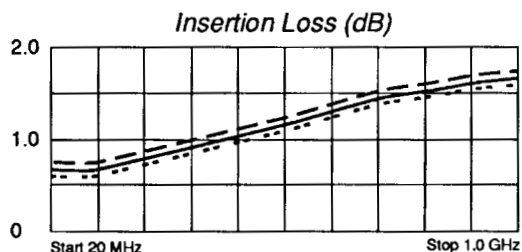
Pin Layout



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

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