

RF LIMITER

MODEL

TL9011

Available as: TNL9011, 4 Pin Surface Mount (SM3)

FPL9011, 4 Pin Flatpack (FP4)

BXL9011, Connectorized Housing (H1)

Features

- Voltage Variable Limiting Level
- Good Even Order Harmonic Suppression
- Low Insertion Loss
- Low VSWR
- 4 Pin TO-8 Metal Hermetic Package
- Operating Temp. -55 °C to + 85 °C

Specifications

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

CHARACTERISTIC	TYPICAL	MIN/MAX
Frequency (MHz)	5 - 500	5 - 500
Insertion Loss Power Input= -20 dBm V=+15	2.0	3.0
Output Level at Limiting Threshold (1 dB comp.) V= +20 V= +15 V= +10 V= +5	-0.5 -1.5 -4.0 -11.0	1.0 0.0 -2.5 -9.0
Max. Output Limiting Level @ +20 dBm (100 MHz) V= +20 V= +15 V= +10 V= +5	+2.0 +1.0 -2.0 -7.0	+3.0 +2.0 0.0 ---
VSWR In Out	1.7:1 1.7:1	2.0:1 2.0:1
Max Input Level (dBm)		+26
Bias Power Vdc mA	+15 7	+20 10

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C

Storage Temperature -62°C to + 125 °C

Case Temperature + 125 °C

DC Voltage + 25 Volts

Continuous RF Input Power + 13dBm

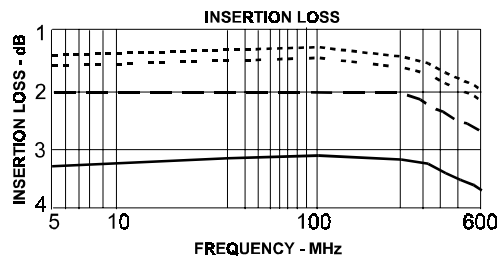
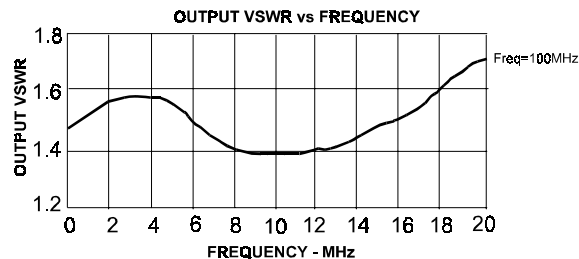
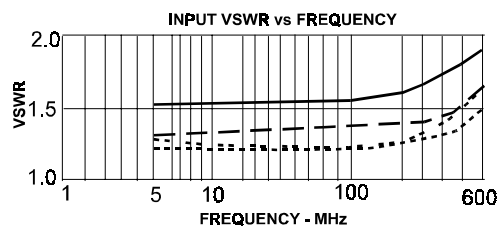
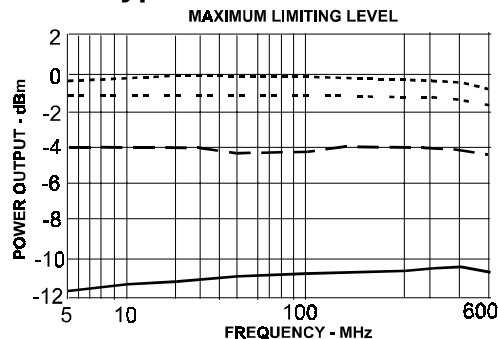
Short Term RF Input Power 400 Milliwatts

..... (1 Minute Max.)

Maximum Peak Power 1.0 Watt

(3 msec Max.)

Typical Performance Data



LIMITING CHARACTERISTICS

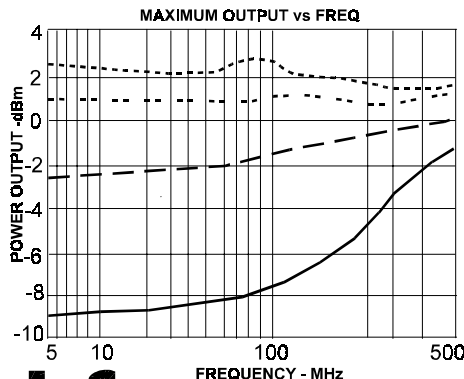
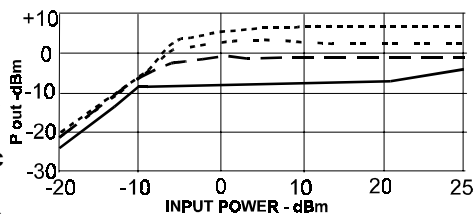
LEGEND:

_____ +5 Vdc

_____ +10 Vdc

_____ +15 Vdc

_____ +20 Vdc



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