

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

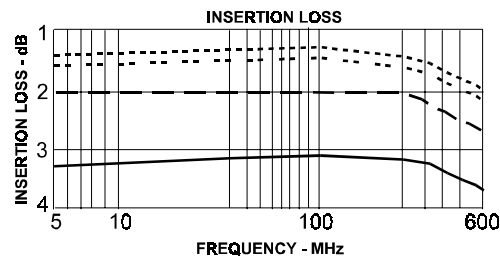
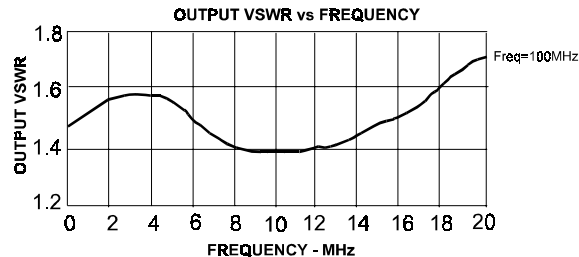
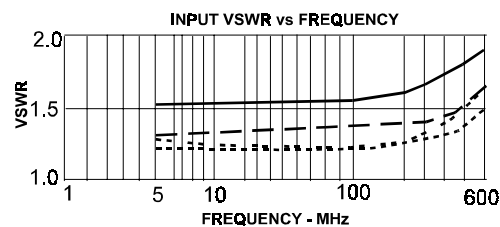
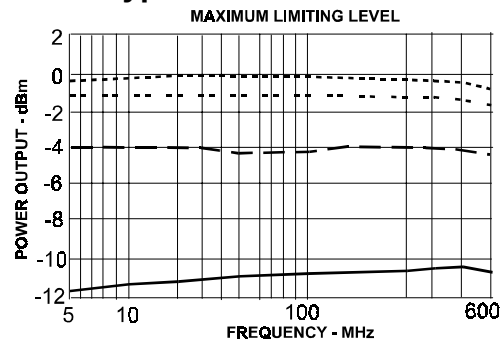
Note: Care should always be taken to effectively ground the case of each unit.

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	-0.5	1.0
V= +15	-1.5	0.0
V= +10	-4.0	-2.5
V= +5	-11.0	-9.0
Max. Output Limiting Level @ +20 dBm (100 MHz)		
V= +20	+2.0	+3.0
V= +15	+1.0	+2.0
V= +10	-2.0	0.0
V= +5	-7.0	---
VSWR In	1.7:1	2.0:1
Out	1.7:1	2.0:1
Max Input Level (dBm)		+26
Bias Power Vdc	+15	+20
mA	7	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.)

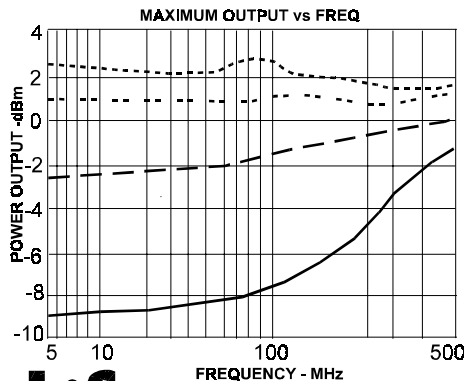
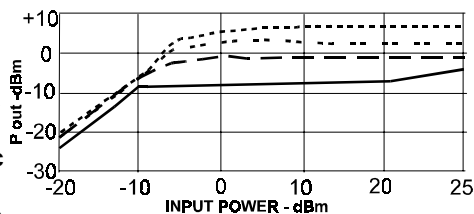
Typical Performance Data



LIMITING CHARACTERISTICS

LEGEND:

- +5 Vdc
- - - +10 Vdc
- - - +15 Vdc
- +20 Vdc



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