

RF Limiter

Model TL9010

Available as

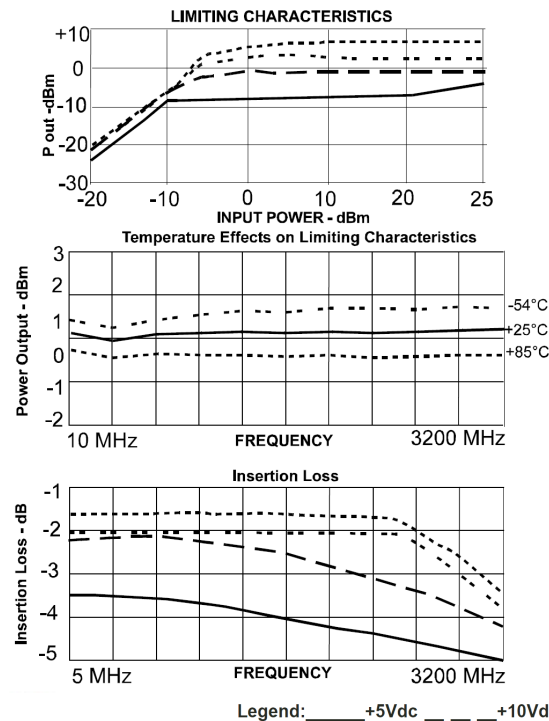
- TL9010, 4 Pin TO-8 (T4)
- TNL9010, 4 Pin Surface Mount (SM3)
- FPL9010, 4 Pin Flatpack (FP4)
- BXL9010, Connectorized Housing (H1)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85°C
Frequency (MHz)	5 - 3200 MHz	5 - 3000 MHz
Insertion Loss @ Pin ≤ -20 dBm (Max)	2.0	3.5
5-1000 MHz 1000-3000 MHz	3.0	5.5
Input VSWR (Max) Pin < -10 dBm, +10 Vdc < V bias < +20 Vdc	1.7:1	2.1:1
Output VSWR (Max) Pin < -10 dBm, +10 Vdc < V bias < +20 Vdc	1.7:1	2.2:1
5-1000 MHz 1000-3000 MHz	2.0:1	2.5:1
Output Limiting Level Pin = +20 dBm	2.5	4.5
5-2000 MHz 2000-3000 MHz	6.5	7.0
Bias Current (Max) @ 15Vdc @ 20Vdc	7 10	10 15

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

Typical Performance Data



Features

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

Absolute Maximum (No Damage) 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	+ 20 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 μsec Max.)

