

RF Limiting Amplifier

Voltage Variable Limiting Level

Model TL9010

5 to 3200 MHz

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 + 100 °C

Specifications

CHARACTERISTIC	TYPICAL	MIN/MAX
Frequency (MHz)	5-3200 MHz	5-3000 MHz
Insertion Loss @ Pin ≤ -20 dBm (Max) 5-1000 MHz 1000-3000 MHz	2.0 3.0	3.5 5.5
Input VSWR (Max) Pin ≤ -10 dBm, +10 ≤ dBm Bias ≤ +20 Vdc	1.7:1	2.1:1
Output VSWR (Max) Pin ≤ -10 dBm, +10 ≤ dBm Bias ≤ +20 Vdc 5-1000 MHz 1000-3000 MHz	1.7:1 2.0:1	2.2:1 2.5:1
Output Limiting Level Pin = +20 dBm 5-2000 MHz 2000-3000 MHz	2.5 6.5	4.5 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.

Packaging Options (see Appendix)

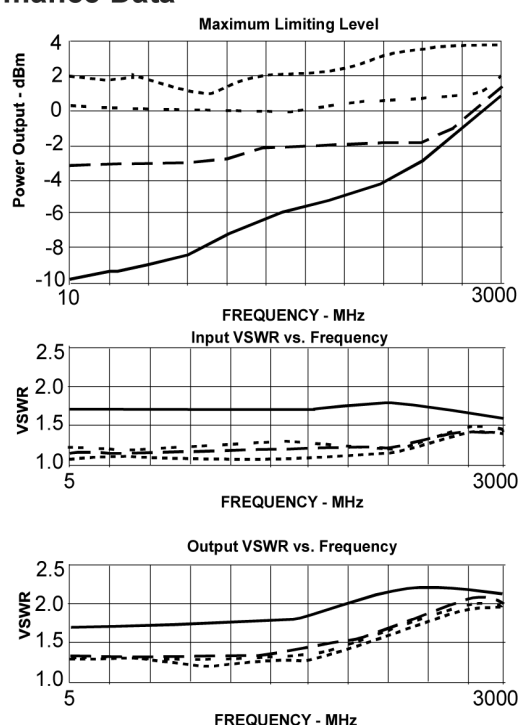
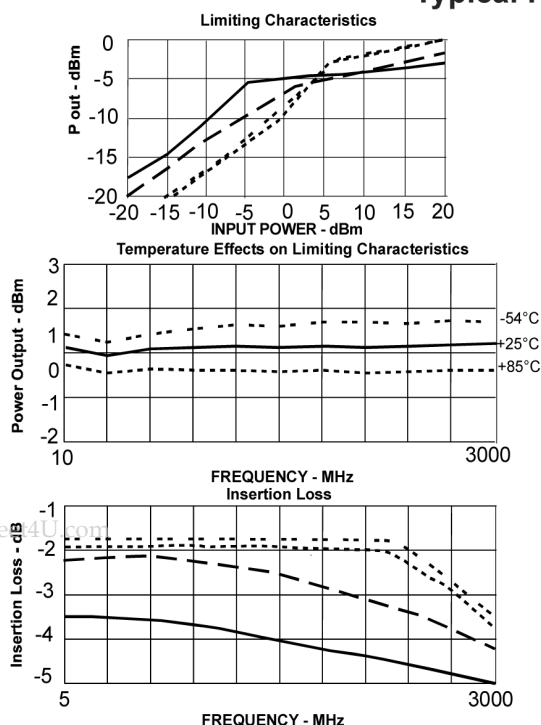
TL9010, 4 Pin TO-8 (T4)
TNL9010, 4 Pin Surface Mount (SM3)
FPL9010, 4 Pin Flatpack (FP4)
BXL9010, Connectorized Housing (H1)

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.)

Legend: ____ +5Vdc ____ +10Vdc ____ +15Vdc -----+20Vdc

Typical Performance Data



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