

# 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)

### 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

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	7	10
@ 20Vdc	10	15

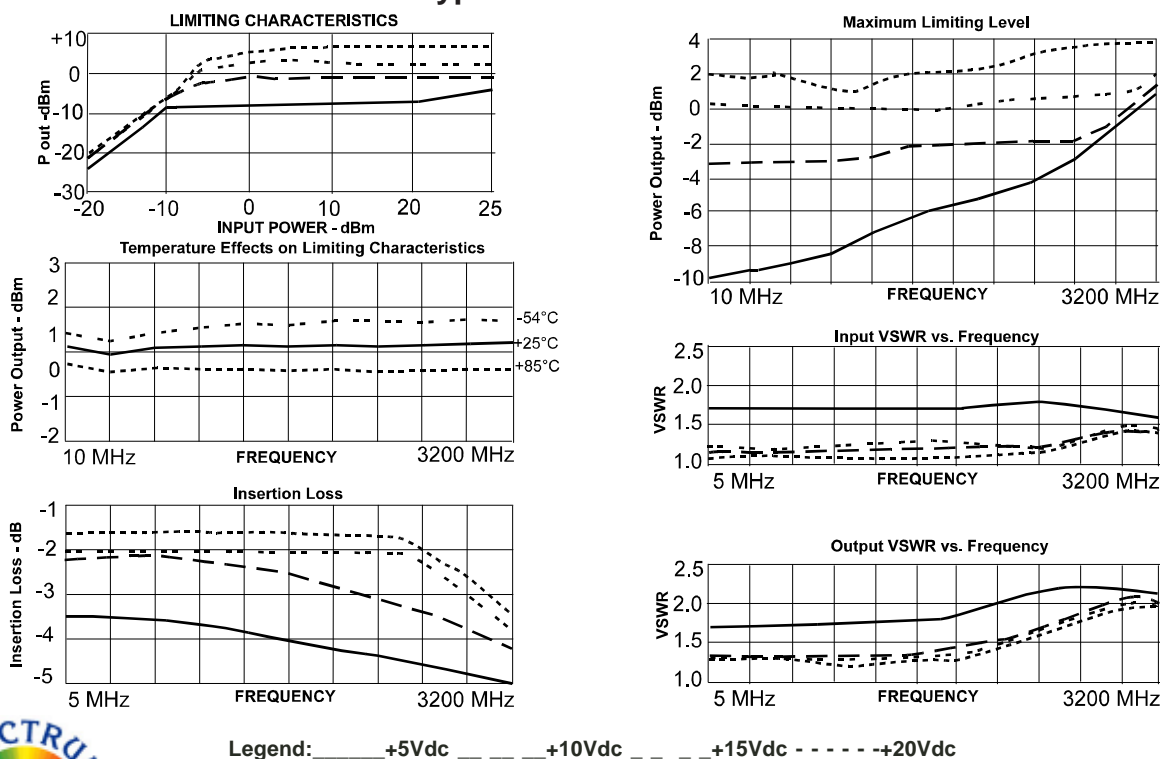
Note: Care should always be taken to effectively ground the case of each unit.

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### 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.)

### Typical Performance Data



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