

# 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 + 100 °C

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +100 °C
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 Vdc < V bias < +20 Vdc	1.7:1	2.1:1
Output VSWR (Max) Pin < -10 dBm, +10 Vdc < V 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.

### 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

