

# RF LIMITING AMPLIFIER

## MODEL TML9052

Available as: TML9052, 5 Pin TO-8 (T5)  
 TNL9052, 4 Pin Surface Mount (SM3)  
 BXL9052, Connectorized Housing (H1)

### Features

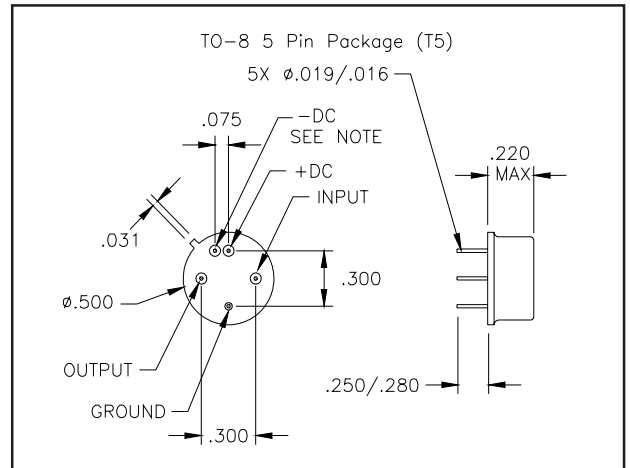
- Frequency: 5 to 500 MHz
- Low Phase Shift per dB of Compression
- Operating Case Temp. -55° C to + 85° C
- Environmental Screening Available

### Maximum Ratings

Ambient Operating Temperature .. -55°C to +100 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +17 Volts  
 Continuous RF Input Power ..... +15 dBm

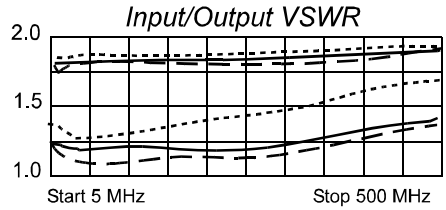
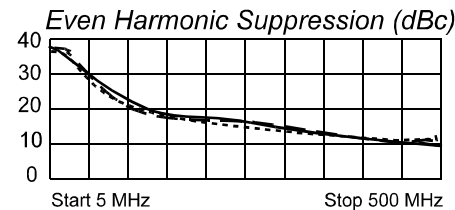
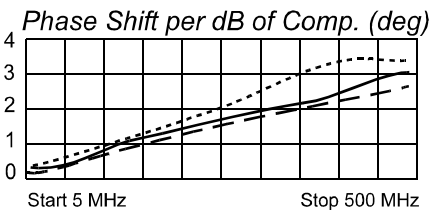
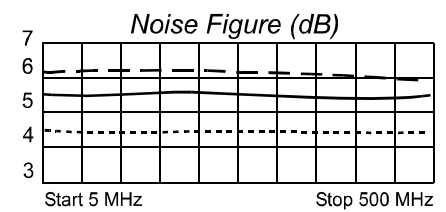
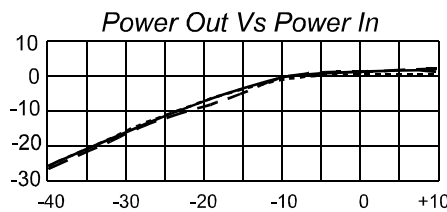
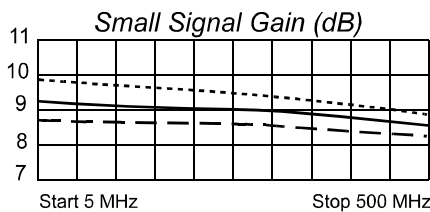
### Specifications

CHARACTERISTIC	TYPICAL	MIN/MAX
	Ta = 25 °C	Ta = -55 °C to +85 °C
Frequency	5 - 500 MHz	5 - 500 MHz
Small Signal Gain (dB)	9	7.0 Min.
Saturated Output Power (dBm)	- 2	- 4 Min.
Saturated Flatness(dB)	+/-0.4	+/-0.5
VSWR Input/Output	1.5:1/1.9:1	2.0:1/2.0:1Max.
Even Harmonic Suppression @ P <sub>IN</sub> = -50 to +7 dBm	11	9
Noise Figure (dB)	5.5	11 Max.
Power +Vdc -Vdc* mA mA	+15 -15* 20 20	+15 -15* 20 20 Max.



Note: Care should always be taken to effectively ground the case of each unit.  
 \* -15 V is not required and may be omitted.

### Typical Performance Data



Legend ——— + 25 °C — — — +85 °C - - - - -55 °C



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