

RF Limiting Amplifier

Low Phase Shift per dB of Compression

Model TML9053

5 to 500 MHz

Features

- Frequency: 5 to 500 MHz; Input Power Range: 13 dB
- Low Phase Shift per dB of Compression
- Operating Case Temp. -55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 500 MHz	5 - 500 MHz
Small Signal Gain (dB)	9.5	7.0 Min.
Saturated Output Power (dBm)	-1	-4 Min.
Saturated Flatness(dB)	± 0.3	± 1.0 Max.
VSWR Input/Output	1.6/1.7	2.0:1 Max.
Even Harmonic Suppression @ P _{IN} = +7 dBm	12	10 Min.
Noise figure (dB)	<8.0	10.5 Max.
Power +Vdc mA	+15 22	+15 24 Max.

Maximum Ratings

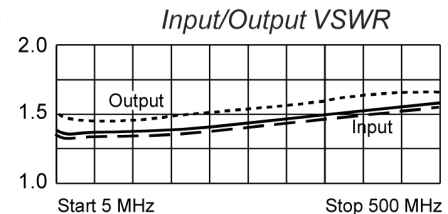
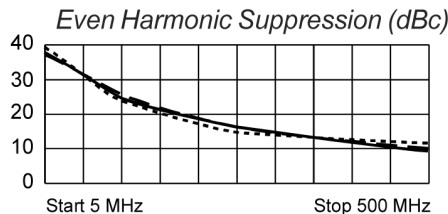
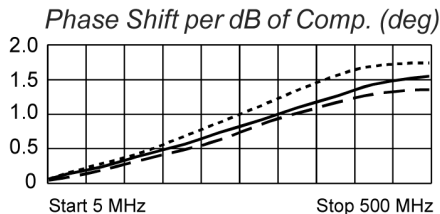
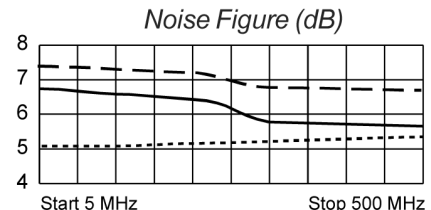
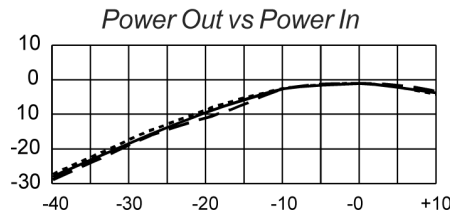
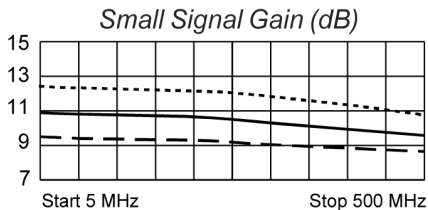
Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage +17 Volts
 Continuous RF Input Power + 15 dBm

Packaging Options (see Appendix)

TML9053, 4 Pin TO-8 (T4)
 TNL9053, 4 Pin Surface Mount (SM3)
 BXL9053, Connectorized Housing (H1)

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

Typical Performance Data



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

