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 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
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.

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

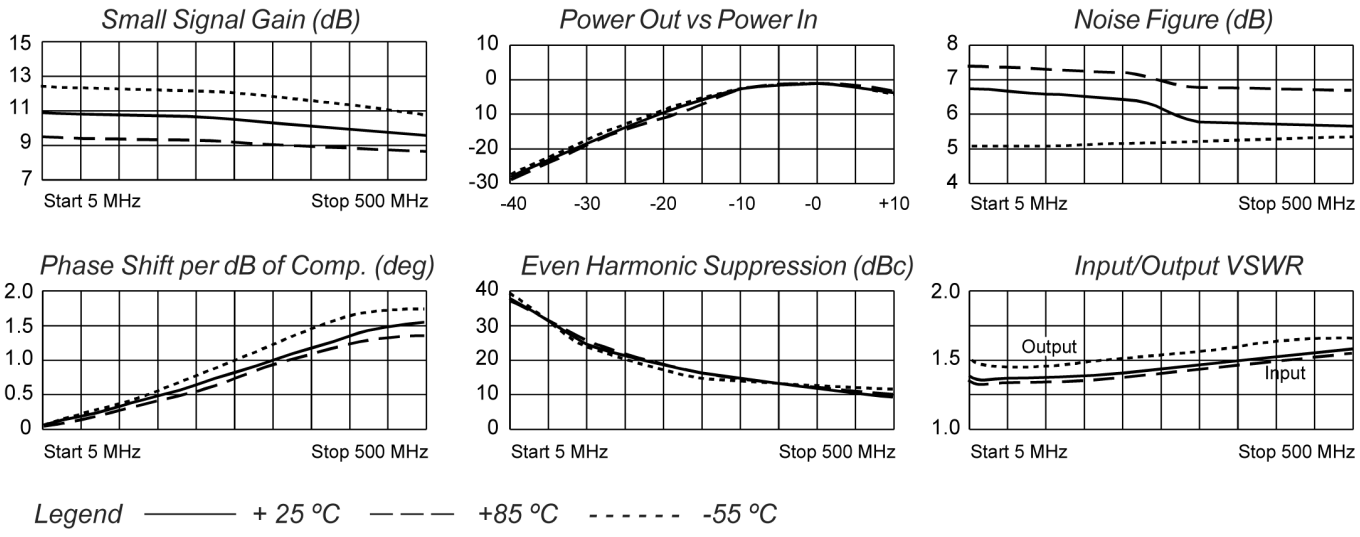
Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
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)

Typical Performance Data



Legend ——— *+ 25 ºC* — — — *+85 ºC* - - - - - - *-55 ºC*

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