

# RF Limiting Amplifier

Compression Range: 40 dB

# Model ENL9653

5 to 500 MHz

## Features

- Compression Range: 40 dB Typical
- Low Phase Shift Variation
- Operating Temperature: -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)	>38	30 Min.
Saturated Power @ P <sub>IN</sub> = 0 dBm (dBm)	- 0.5	- 4.0 Min.
Saturated Flatness @ P <sub>IN</sub> = 0 dB	±0.8	±1.5 Max.
VSWR In Out	< 1.25:1 < 1.25:1	2.0:1 Max. 2.0:1 Max.
Phase Shift per dB of Comp. per MHz, (deg.)	0.0035	— Min.
Even Harmonic Suppression @ P <sub>IN</sub> = -33 to +10 dBm (dBc)	20	15 Max.
Noise figure (dB)	< 8	11 Max.
Power Vdc mA	+15 60	+15 Max. 70 Max.

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

## Maximum Ratings

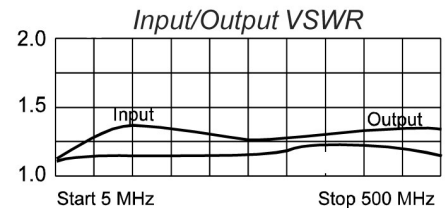
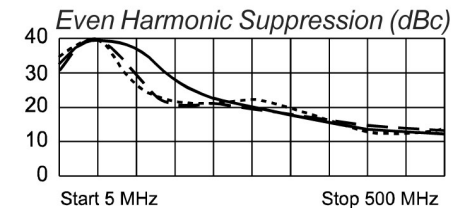
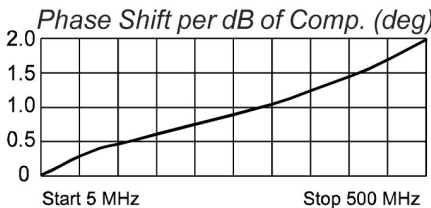
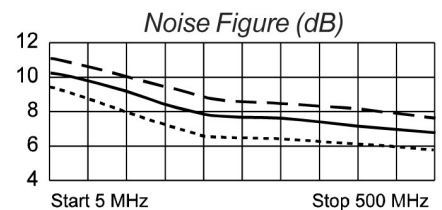
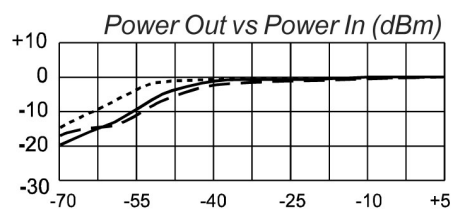
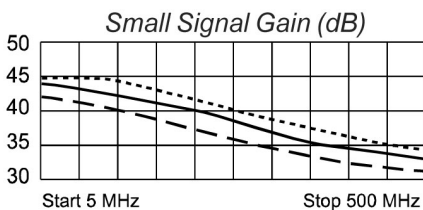
Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage.....+17 Volts  
 Continuous RF Input Power..... +15 dBm

## Packaging Options (see Appendix)

20 Pin, 0.800" x 0.400" Surface Mount (SM4)

Limiting Amplifiers, Limiters and AGCs

## Typical Performance Data



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

