

RF Limiting Amplifier

Low VSWR: <1.5:1

Model TML9012

20 to 550 MHz

Features

- Frequency: 20 to 500 MHz
- Low VSWR: <1.5:1 Typical
- Operating Temp. -55°C to +85°C
- Environmental Screening Available

Specifications

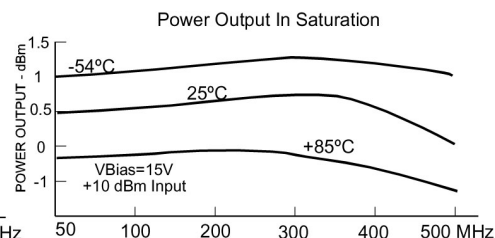
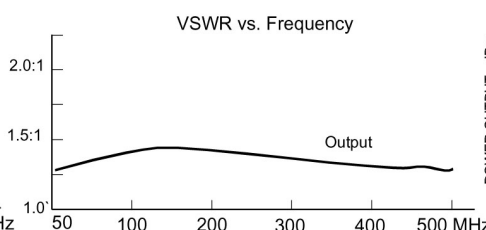
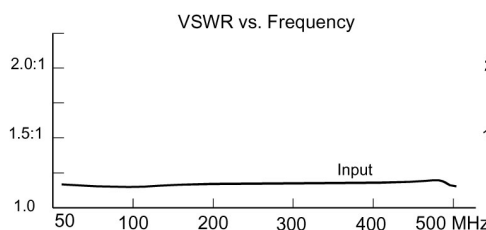
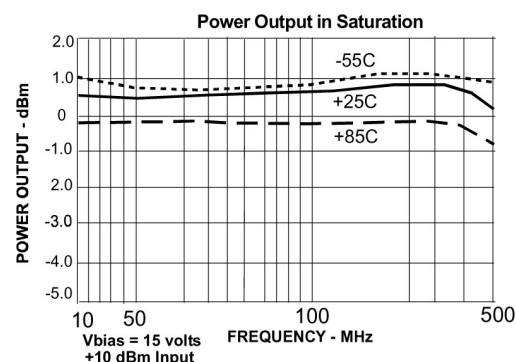
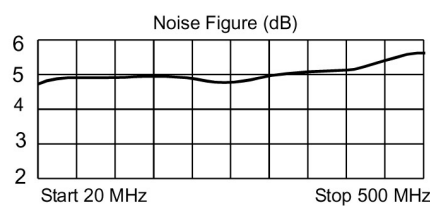
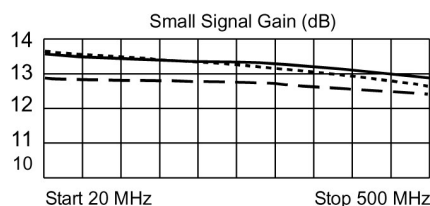
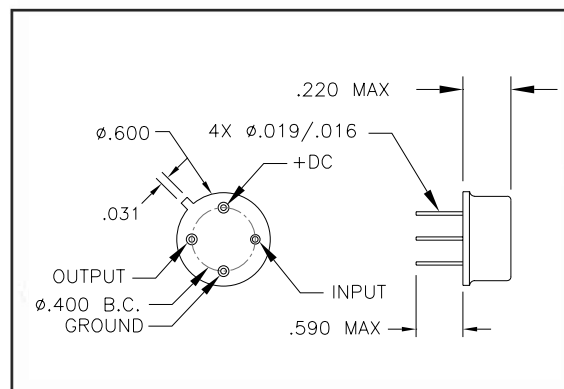
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	20 - 550 MHz	50 - 500 MHz
Small Signal Gain (dB)	13	11 Min.
Noise Figure (dB)		
50-300 MHz	5.0	6.5 Max.
300-500 MHz	5.5	7.0 Max.
Gain Flatness (dB)	± 0.2	± 0.7
VSWR Input/Output	1.2:1/1.4:1	2.0:1 Max.
Output 1 dB Comp (dBm)	-1.5	-7.0 Min.
Output Limiting Level (Max.) @ +10 dBm	0.5 dBm	2.5 dBm
Power		
Vdc	+15	+15
mA	54	59 Max.

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

Typical Performance Data

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



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

Packaging Options (see Appendix)

TML9012, 4 Pin TO-8 (T4)
 TNL9012, 4 Pin Surface Mount (SM3)
 BXL9012, Connectorized Housing (H1)

Limiting Amplifiers, Limiters and AGCs