RF Limiting Amplifier
Low VSWR: <1.5:1

Model TML9012
20 to 550 MHz

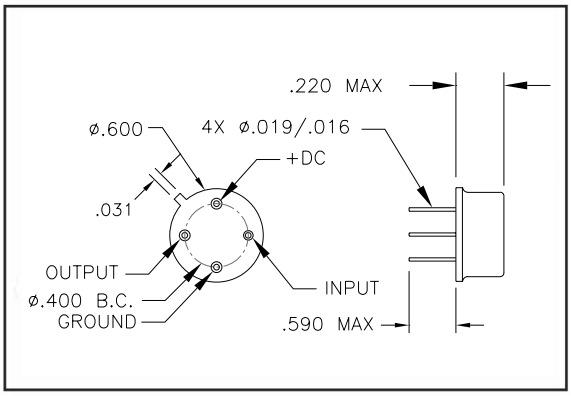
Features
- Frequency: 20 to 500 MHz
- Low VSWR: <1.5:1 Typical
- Operating Temp. -55C to +85C
- Environmental Screening Available

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

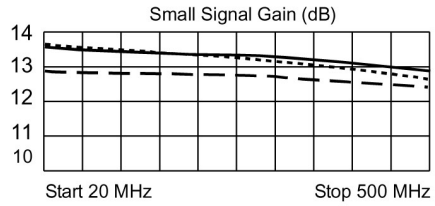
Specifications

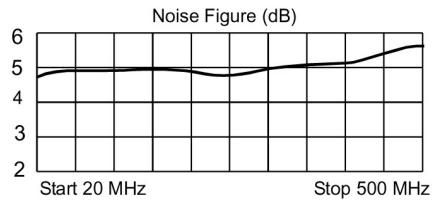
CHARACTERISTIC	TYPICAL Ta = 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency (MHz)	20 - 550 MHz	50 - 500 MHz
Small Signal Gain (dB)	13	11 Min.
Noise Figure (dB) 50-300 MHz 300-500 MHz	 5.0 5.5	 6.5 Max. 7.0 Max.
Gain Flatness (dB)	± 0.2	± 0.7
VSWR Input/Output	1.2:1/1.4:1	2.0:1 Max.
Output 1 dB Comp (dBm)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

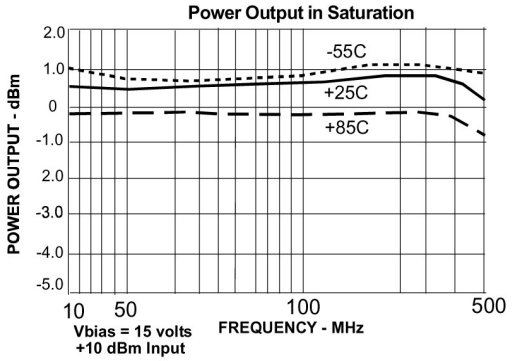
Note: Care should always be taken to effectively ground the case of each unit.

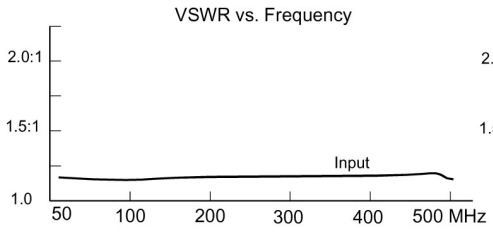


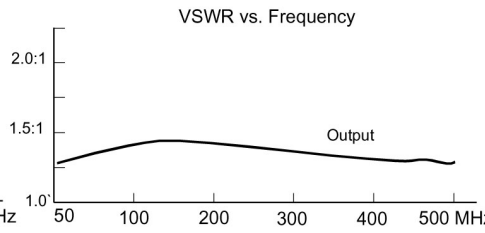
Typical Performance Data

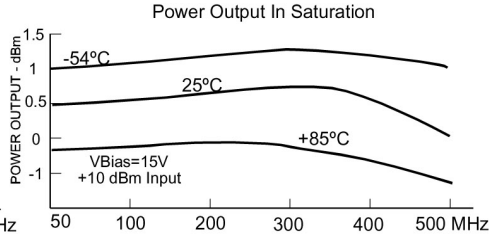












Legend ——— *+ 25 ºC* — — — *+85 ºC* - - - - - - *-55 ºC*

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

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