

LOW NOISE AMPLIFIER

MLN0130.25
0.1GHz-3.0GHz

Features

- ✓ Broad band operation from 0.1 GHz to 3.0 GHz
- ✓ Low VSWR, unconditional stable
- ✓ SMA female connector I/O.
- ✓ Single DC power supply , operating voltage +12V
- ✓ Operating temperature -25~+85°C, storage temperature -55~+125°C



Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	0.1 GHz		3.0 GHz
Gain	25 dB	28 dB	30 dB
Gain Flatness		±1.5 dB	±2.5 dB
Input VSWR		1.6	2.0
Output VSWR		1.6	2.0
Output Power for (P1dB)	8 dBm	15 dBm	
Noise Figure		1.5 dB	2.0 dB
Output IP3		30 dBm	
Input Max Power (no damage)			5 dBm
DC Current (Vcc=+12V)		300 mA	
Impedance		50Ω	
Material	Aluminium /Gold Painting		
Weight	100g		
Input/Output Connector	SMA Female		

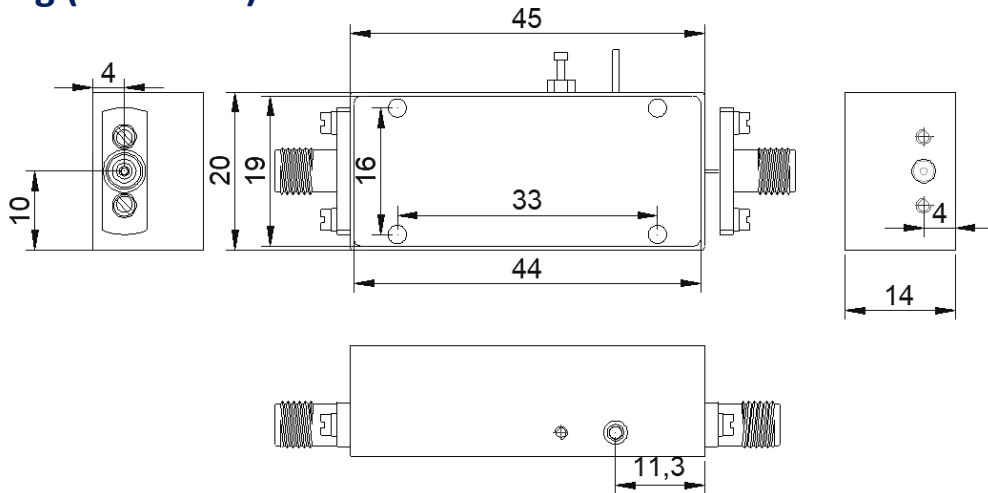
NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY



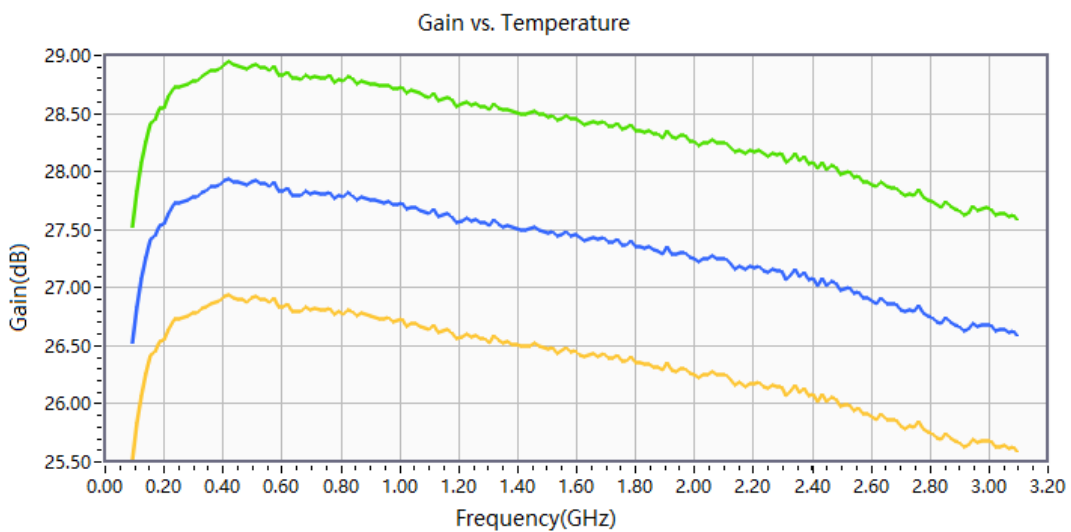
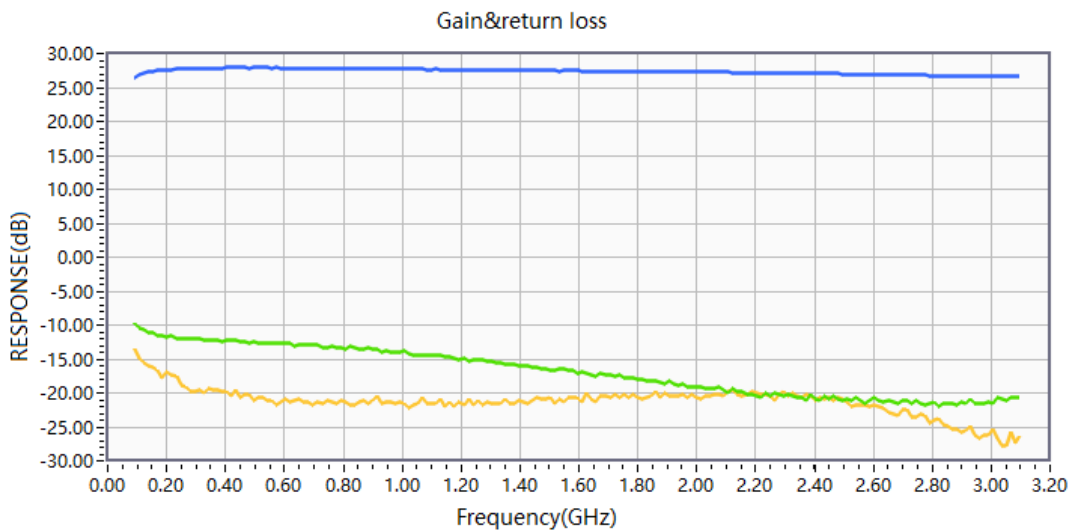
Tolerance: $\pm 0.3\text{mm}$

Outline Drawing (Unit: mm)

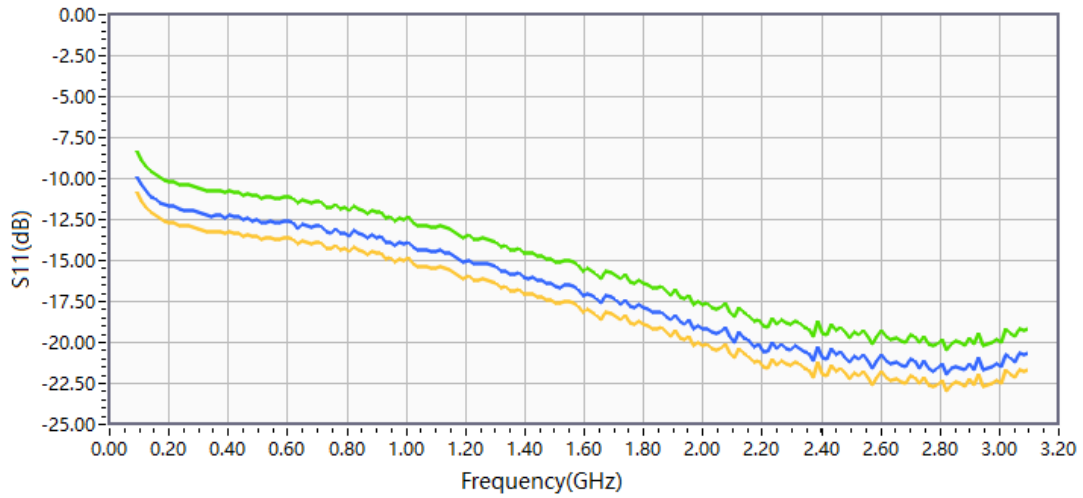


Heat Sink required during operation

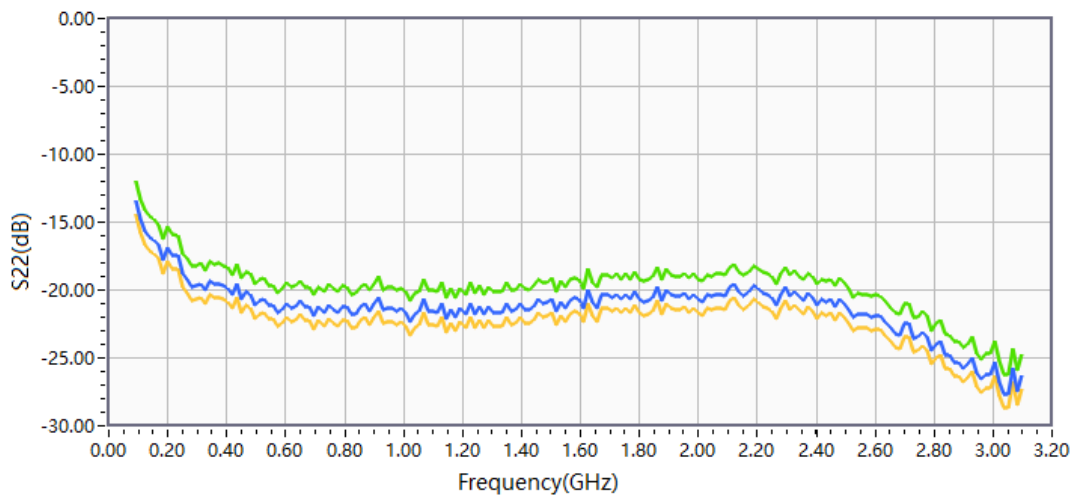
Typical Test Result



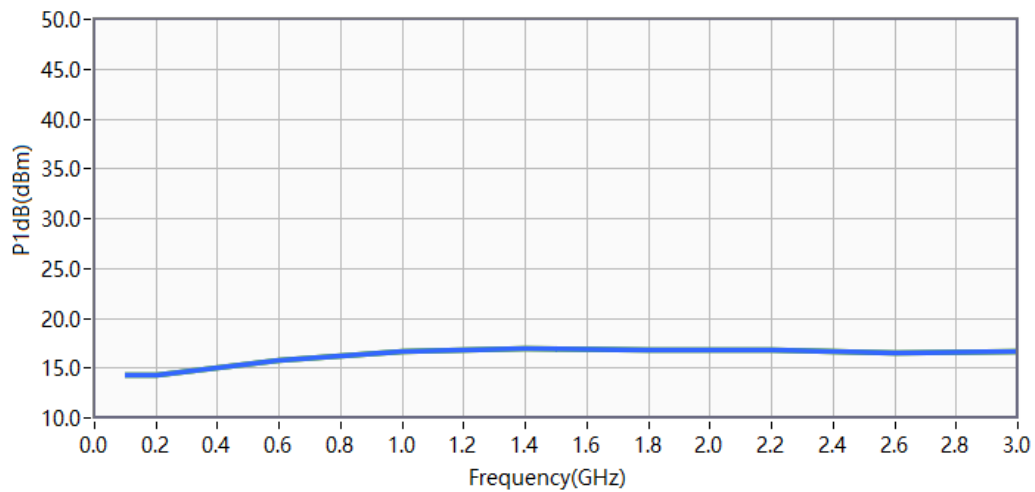
Input Return Loss vs. Temperature



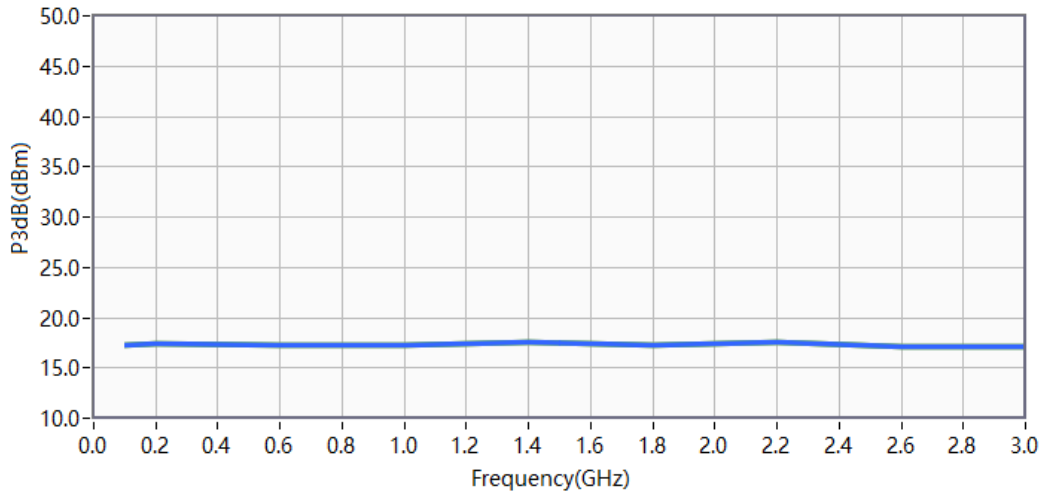
Output Return Loss vs. Temperature



P1dB vs. Frequency



P3dB vs. Frequency



Gain vs. Pout

