

LOW NOISE AMPLIFIER

MLN1090.31
1.0GHz-9.0 GHz

Features

- ✓ Broad band operation from 1.0 GHz to 9.0 GHz
- ✓ Low VSWR, unconditional stable
- ✓ Small size, low cost
- ✓ SMA female connector I/O.
- ✓ Single DC power supply, internal voltage
- ✓ Operating temperature -40~+85°C, storage temperature -55~+125°C



Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	1.0GHz		9.0GHz
Gain	30 dB	31 dB	
Gain flatness		±1.5 dB	±2.5 dB
Input VSWR		1.6:1	2.0:1
Output VSWR		1.6:1	2.0:1
P-1dB Compression Point	15dBm	16dBm	
Noise Figure		0.9 dB	1.4 dB
OIP3		25dBm	
RF Input Power (no damage)			-10 dBm
DC Current (Vcc=+12V)		150mA	
Weight	50g		
Material/Finishing	Aluminum/Gold Plating		
Operating Temperature	-45°C		+85°C
Survival Temperature	-55°C		+125°C
RF In/Out connectors	SMA female		
Size (mm)	30x30x8		

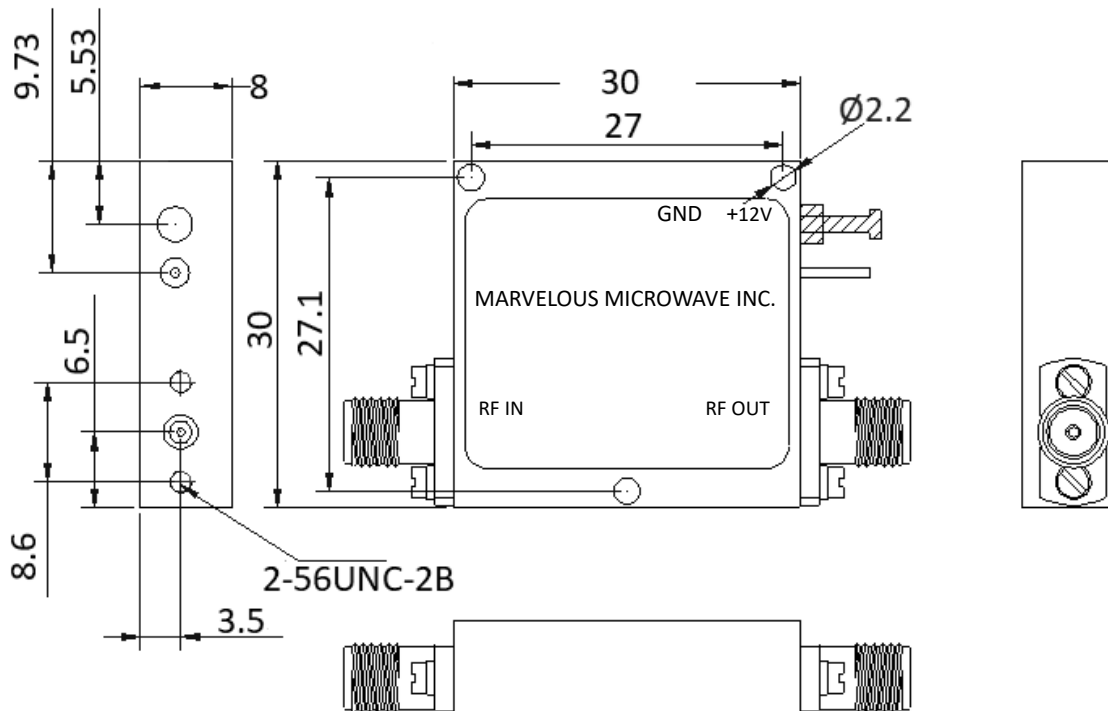
NOTES:

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



Mechanical Structure (mm):

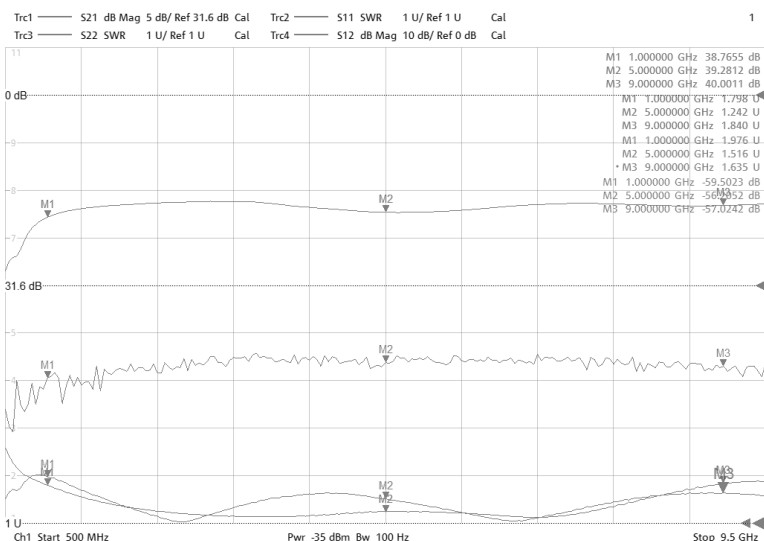
TOLERANCE: X=±0.3mm



Absolute Maximum Ratings

Supply Bias Voltage	+14V
RF Input Power	-15 dBm
Operating Temperature	-45~+85°C
Storage Temperature	-55~+125°C

Typical Test Result



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