



LOW NOISE AMPLIFIER

MLN0560.37
0.5GHz-6.0GHz

Features

- ✓ Broad band operation from 0.5 GHz to 6.0 GHz
- ✓ Low VSWR, unconditional stable
- ✓ SMA female connector I/O.



Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	0.5GHz		6.0GHz
Gain	35 dB	37 dB	
Gain Flatness		±1.0 dB	±1.5 dB
Input VSWR		1.8	2.2
Output VSWR		1.5	2.0
P1dB	15dBm	16dBm	
Noise Figure		1.4dB	1.8dB
Output IP3		35dBm	
RF Input Power (no damage)			-10 dBm
DC Current (Vcc=+12V)		120mA	160mA
Impedance		50Ω	
Material	Aluminium \Gold Painting		
Weight	80g		
RF In/Out connectors	SMA female		

NOTES:

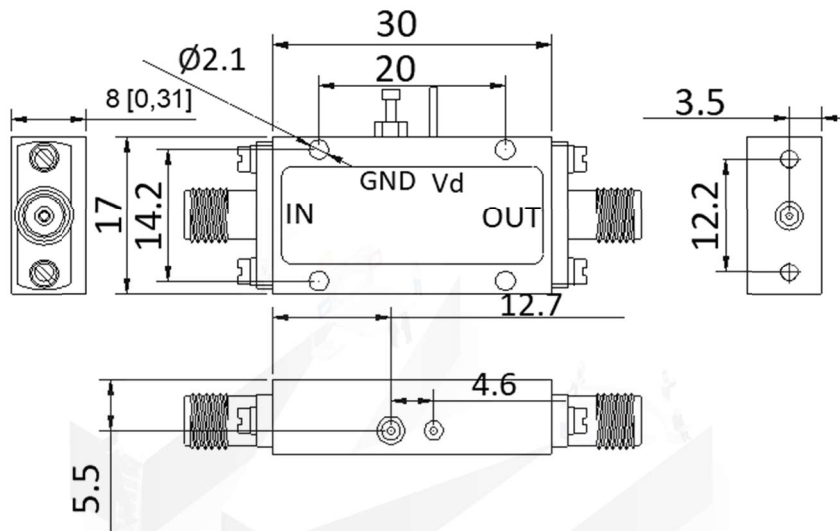
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2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY





Tolerance: ±0.3mm

Outline Drawing (Unit: mm):



***Heat Sink required during operation**

***Electrostatic Sensitive Devices**

Absolute Maximum Ratings

Supply Bias Voltage	+18V
RF Input Power	-10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Environmental Conditions

Storage Temperature	-55°C ~+125°C
Operating Temperature	-45°C~+85°C
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Shock	20G for 11msc half sin wave, 3 axis both directions
Humidity	100% RH at 35c, 95%RH at 40°C

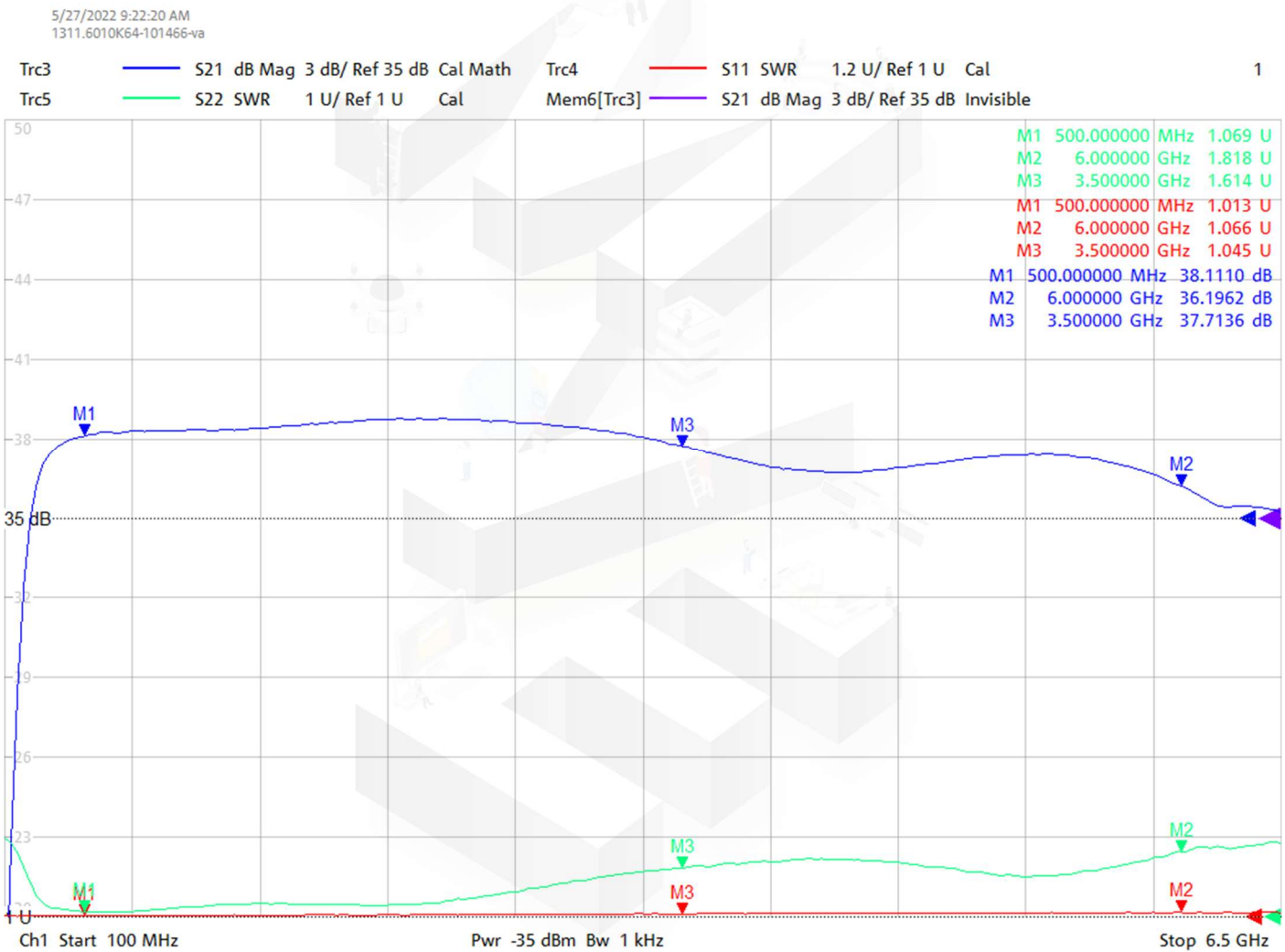
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Typical Test Report

SPEC	Gain	Gain Flatness	Input VSWR	Ouput VSWR	NF	P-1	Input Max Power	Output Ip3
		≥ 35dB	≤ 1.5	2.2	2.0	≤ 1.8dB	≥ 15 dB	≤ -10dBm
Test data	36.1	1.45	2.03	1.81	1.5dB	16dBm	-10dBm	29dBm





5/27/2022 9:23:02 AM
1311.6010K64-101466-va

Trc3 S21 dB Mag 3 dB/ Ref 35 dB Cal Math Trc4 S11 SWR 1.2 U/ Ref 1 U Cal 1
Trc5 S22 SWR 1 U/ Ref 1 U Cal Mem6[Trc3] S21 dB Mag 3 dB/ Ref 35 dB Invisible

