P/N:LBW-AM06-LNAM-8G12G-55B

Герметичный широкополосный
малошумящий усилитель 8 ГГц — 12 ГГц

Характеристики:

- Коэффициент усиления: 55 дБ (тип.)
- Шум: 1,0 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +17 дБм (тип.)
- Напряжение питания: +15 В
- Согласованный вход/выход 50 Ом

Области применения:

- Беспроводные сети
- 5G сети
- Оборудование для тестирования и измерений
- Микроэлектроника и спутниковая связь
- Оптоволоконные сети

Parameter	Min.	Typ.	Max.	Units
Frequency Range	8		12	GHz
Gain	50	55		dB
Gain Flatness		±1.0	±2.0	dB
Gain Variation Over Temperature(-40ºC~+85ºC)		±1.0		dB
Noise Figure		1.0	1.5	dB
Input VSWR		1.2	1.8	: 1
Output VSWR		1.2	1.6	: 1
Output 1dB Compression Point (P1dB)	15	17		dBm
Saturated Output Power (Psat)		18		dBm
Output Third Order Intercept (OIP3)		25		dBm
Supply Current (Vcc=+15V)		165	200	mA
Isolation S12		-75		dB

Weight	1.2 ounces (Max.)	Impedance	50ohms
Input / Output Connectors	2.92-Female	Material	Aluminum
Finish	Gold Plated	Package Sealing	Hermetically Sealed (Laser Welded)

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Absolute Maximum Ratings

Operating Voltage	+12~15.5V @25ºC
RF Input Power	-30dBm @25ºC

Biasing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +15V biasing

Power OFF Procedure

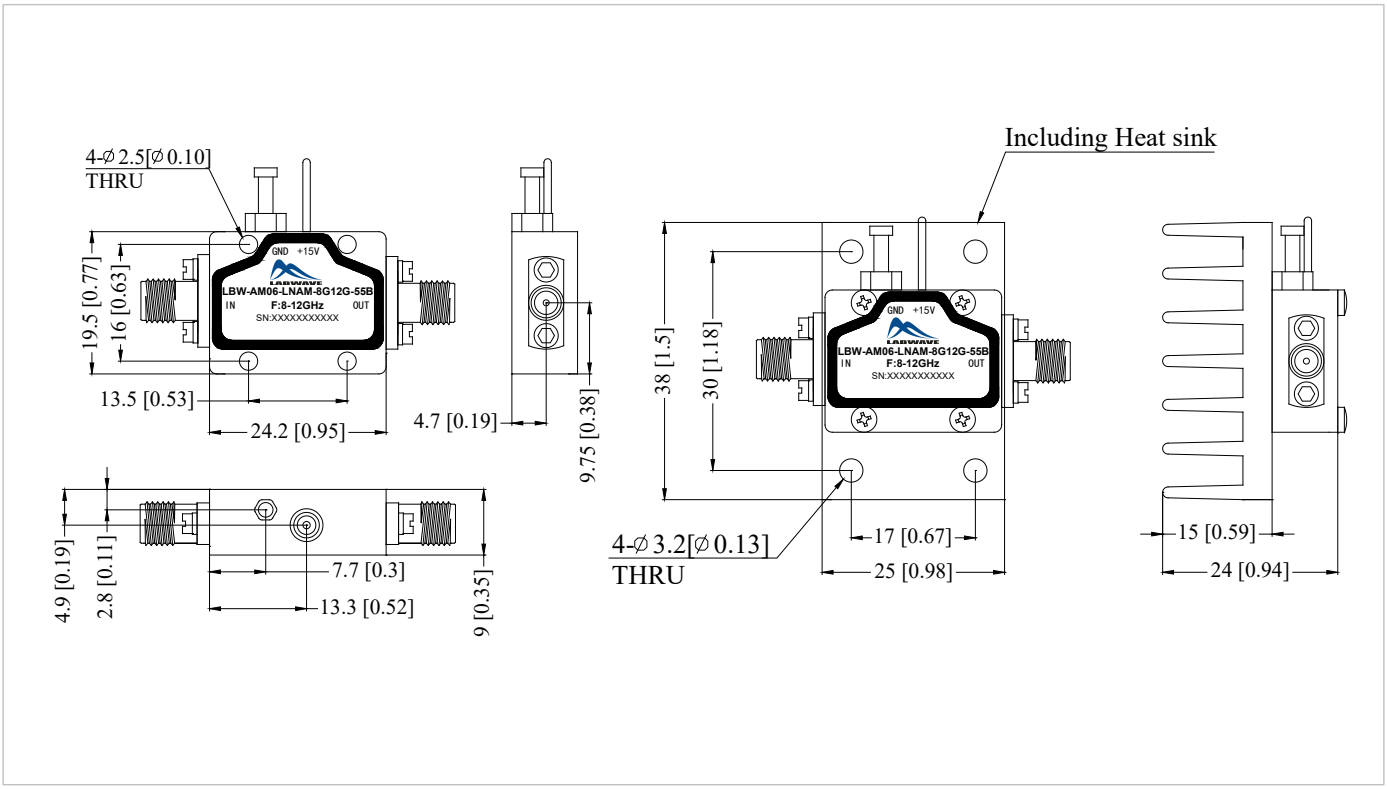
Step 1	Turn off +15V biasing
Step 2	Remove RF connection
Step 3	Remove Ground.

Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH at 40ºc
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

Heat Sink required during operation(Sold Separately)



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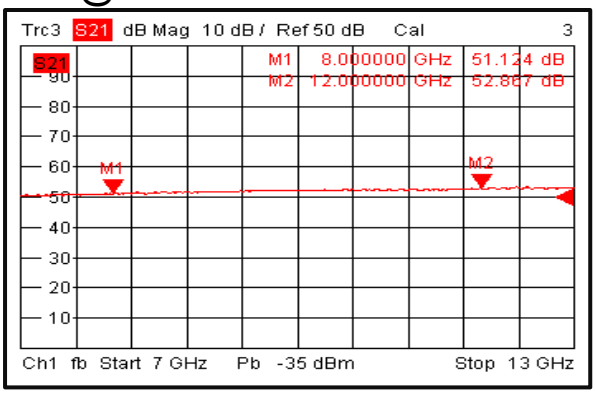
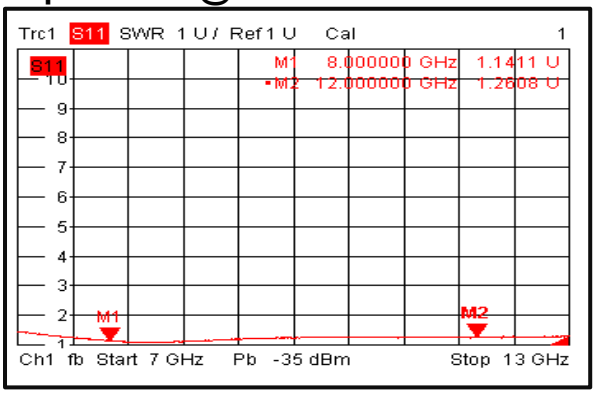
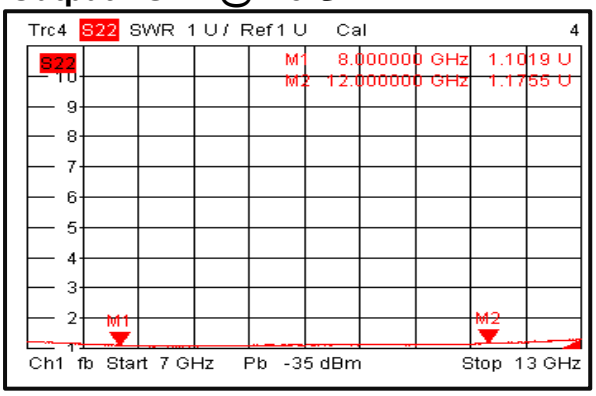
Gain@+25℃



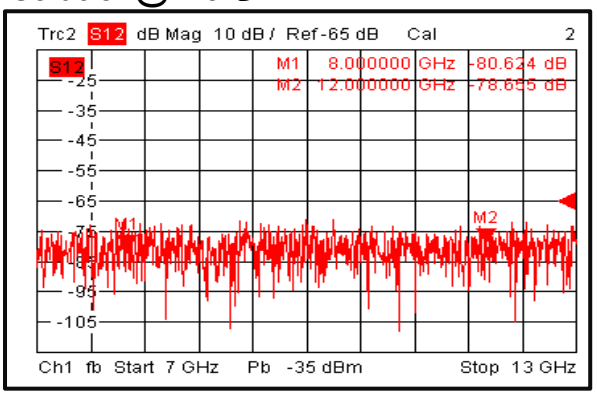
Input VSWR@+25℃



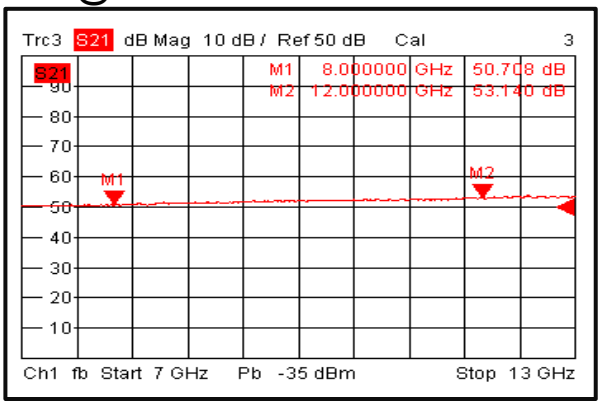
Output VSWR@+25℃



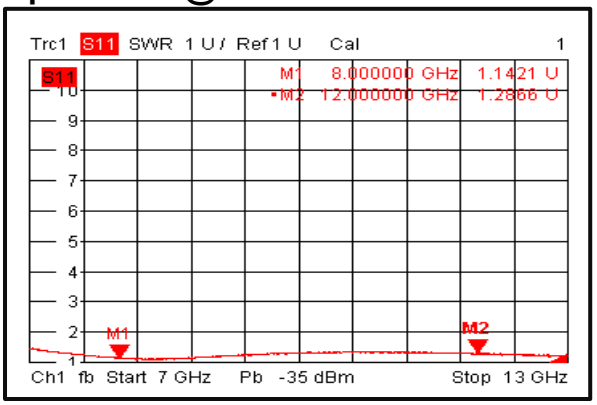
Isolation@+25℃



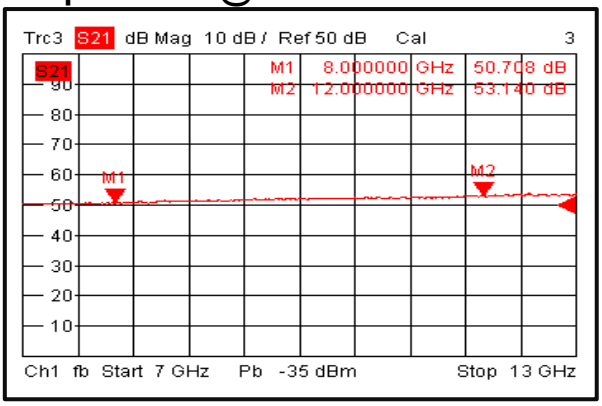
Gain@-40℃



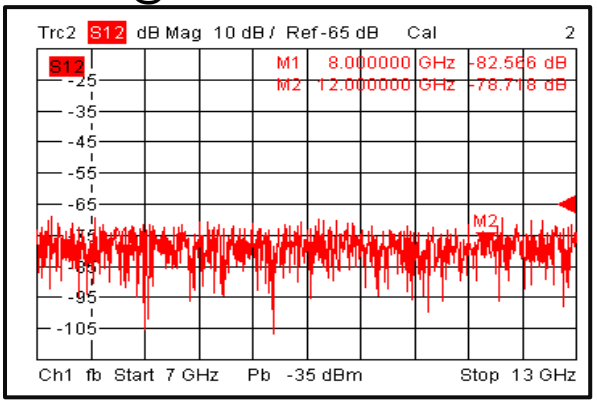
Input VSWR@-40℃



Output VSWR@-40℃



Isolation@-40℃



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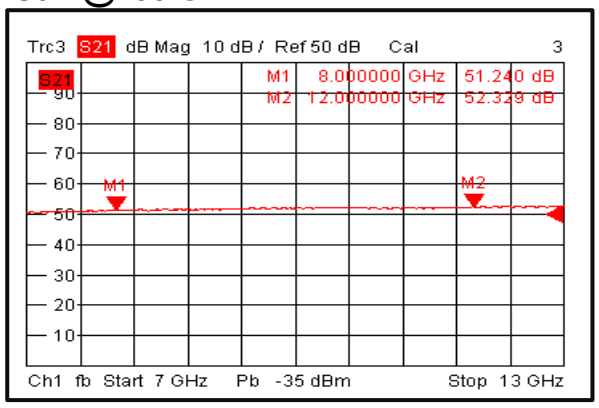
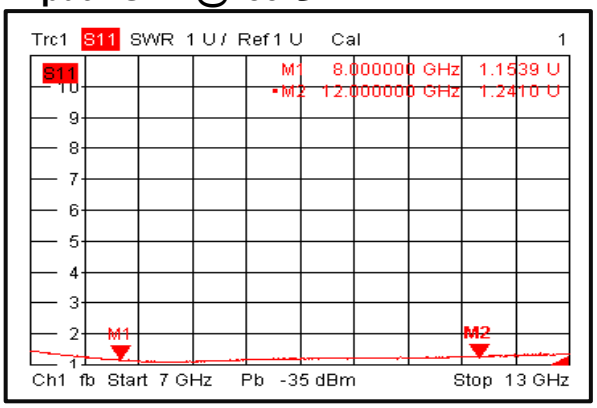
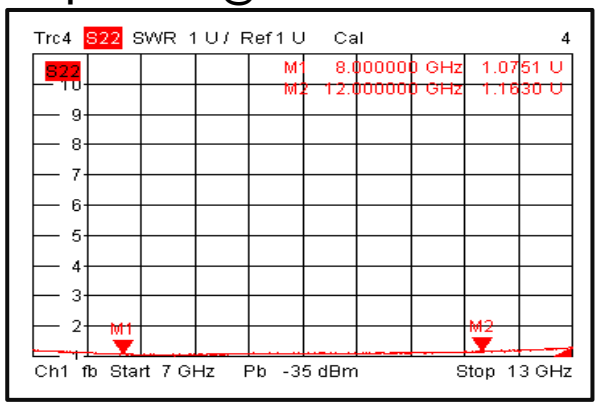
Gain@+85℃



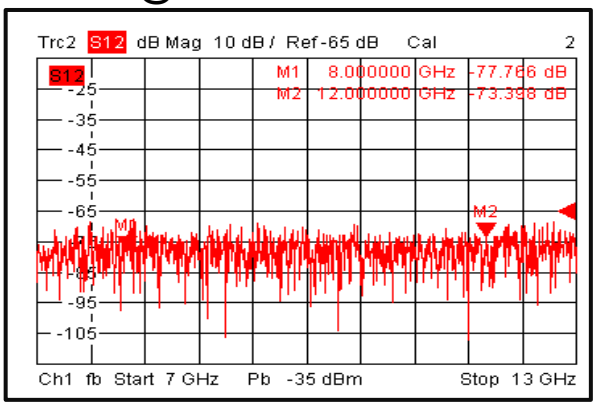
Input VSWR@+85℃



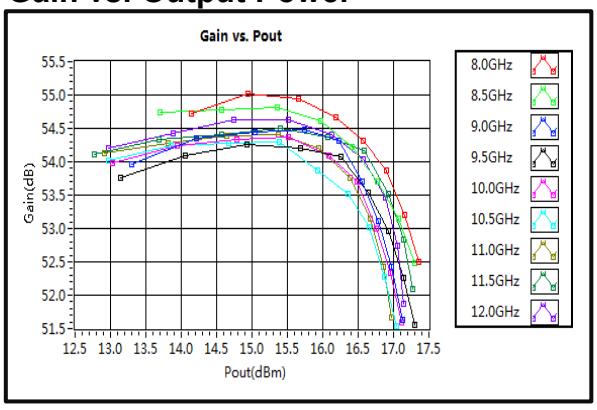
Output VSWR@+85℃



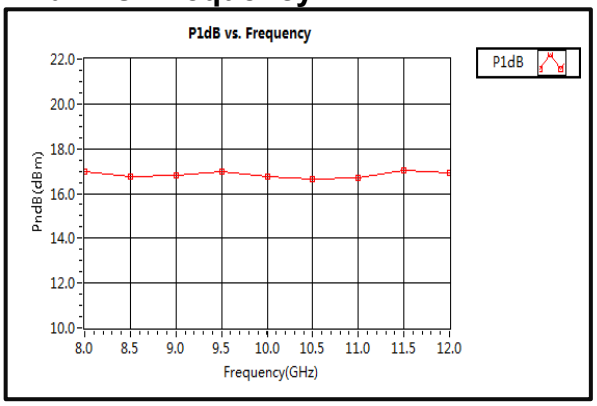
Isolation@+85℃



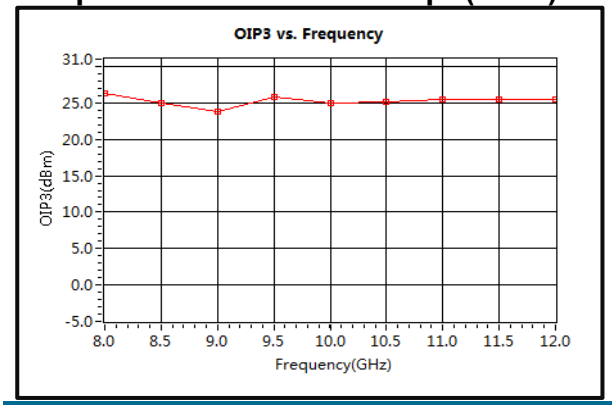
Gain vs. Output Power



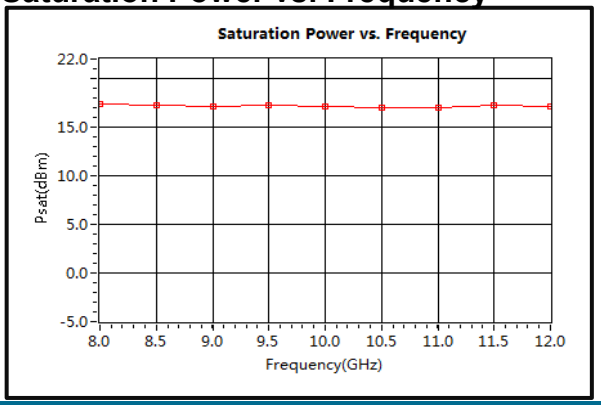
P1dB vs. Frequency



Output Third Order Intercept (OIP3)



Saturation Power vs. Frequency



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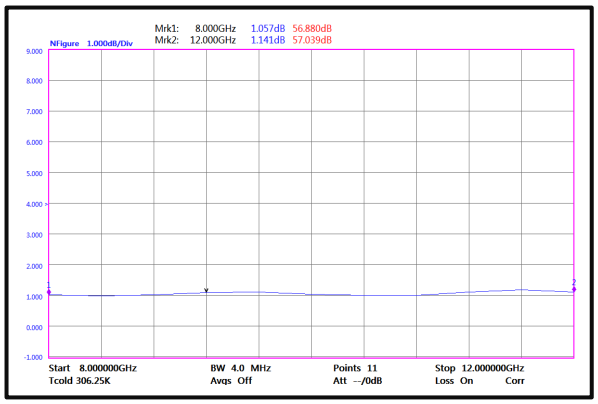
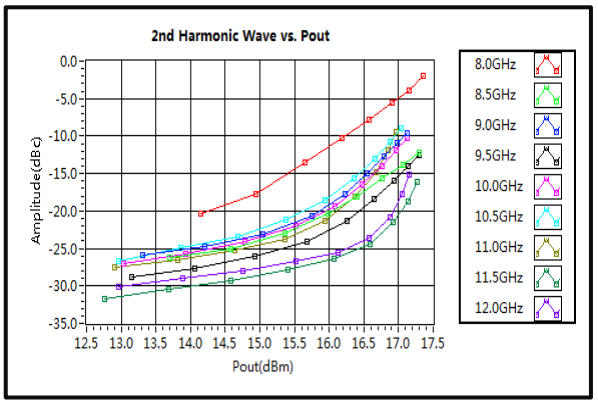
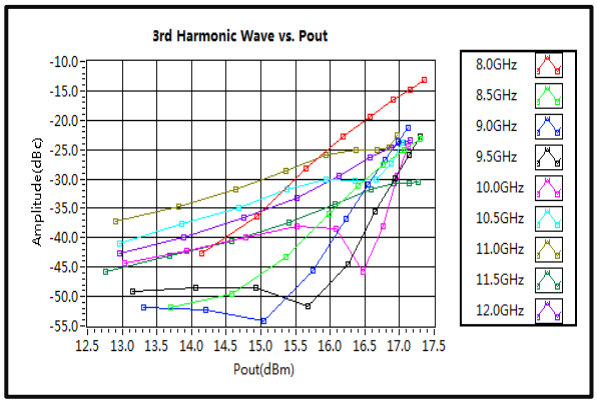
Noise Figure



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power