P/N:LBW-AM06-LNAM-08G25G-60

Сверхширокополосный малошумящий усилитель 0,8 ГГц — 2,5 ГГц

Характеристики:

- Коэффициент усиления: 60 дБ (тип.)
- Шум: 0,8 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +19 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	0.8		2.5	GHz
Gain	58	60		dB
Gain Flatness		±1.5	±2.5	dB
Gain Variation Over Temperature (-40ºC~+85ºC)		±1.0		dB
Noise Figure		0.8	1.0	dB
Input VSWR		1.4		: 1
Output VSWR		1.8	2.5	: 1
Output Power for 1 dB Compression (P1dB)	16	19		dBm
Saturated Output Power (Psat)		21		dBm
Output Third Order Intercept (OIP3)		30		dBm
Supply Current (Idd) (Vcc=+15V)		210	250	mA
Isolation S12		-70		dB

Weight	14.81	Impedance	50ohms
Input /Output Connectors	SMA-Female	Material	Aluminum
Finish	Black Plated	Package Sealing	Epoxy Sealed (Standard)
			Hermetically Sealed(Option with extra charge)

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Absolute Maximum Ratings

Operating Voltage	+15V±10%
RF Input Power (RFIN)	-40dBm

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

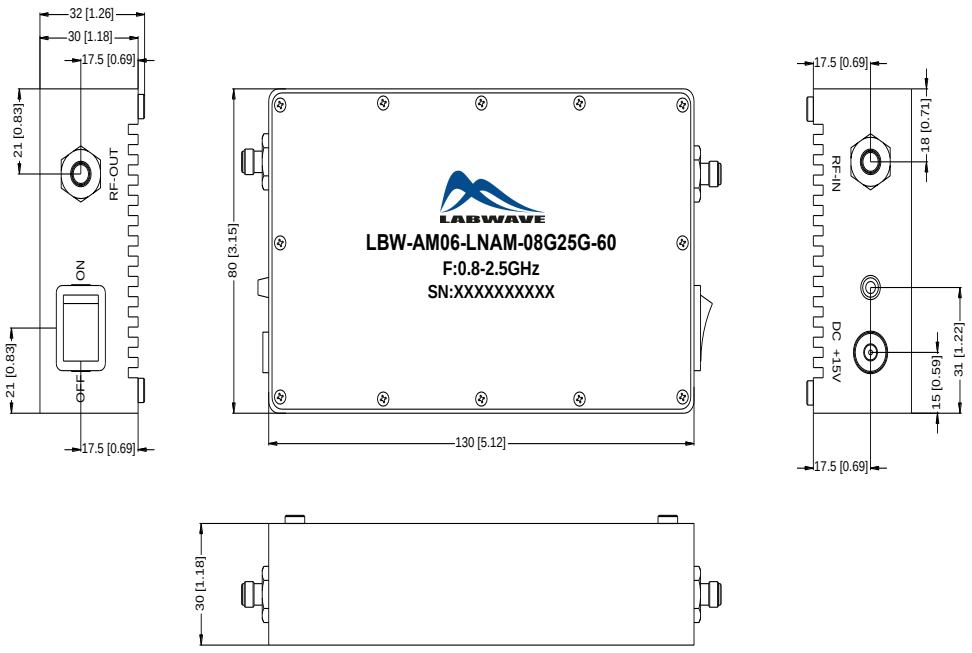
Environmental Specifications

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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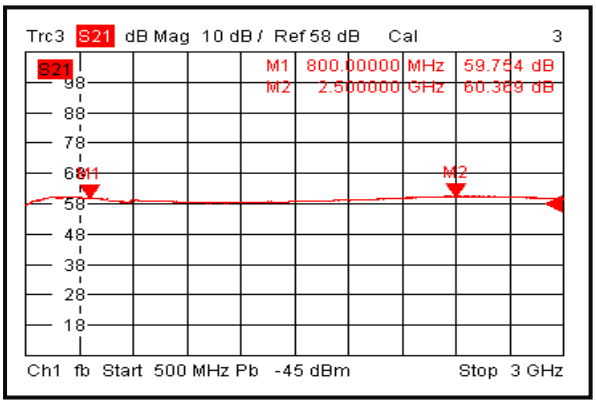
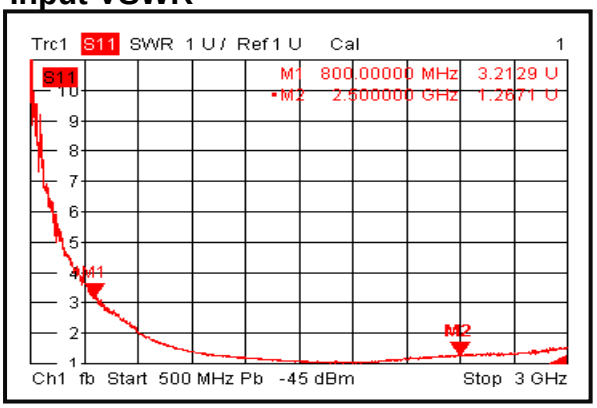
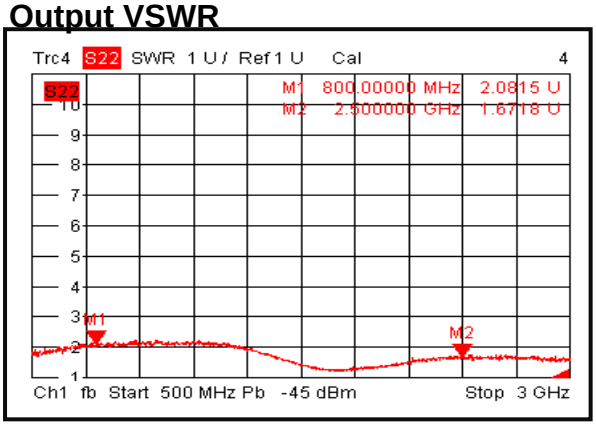
Gain



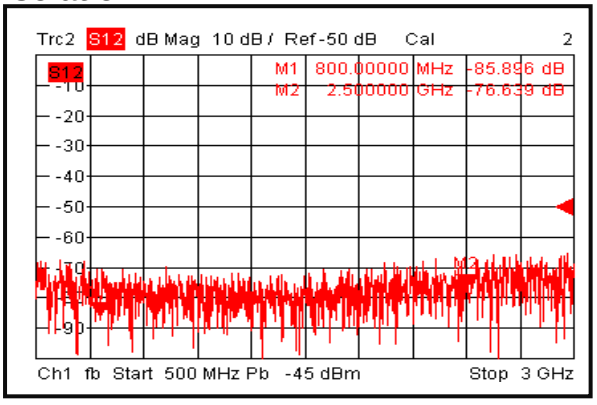
Input VSWR



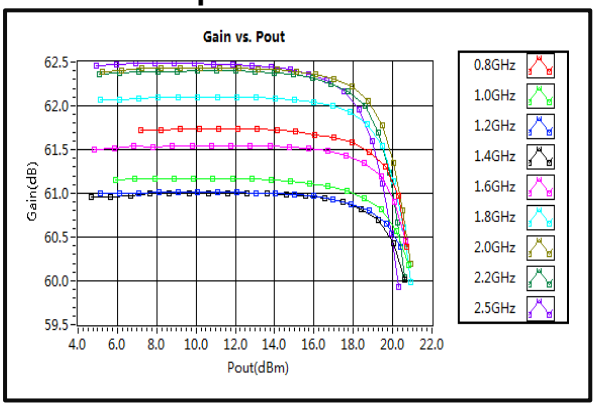
Output VSWR



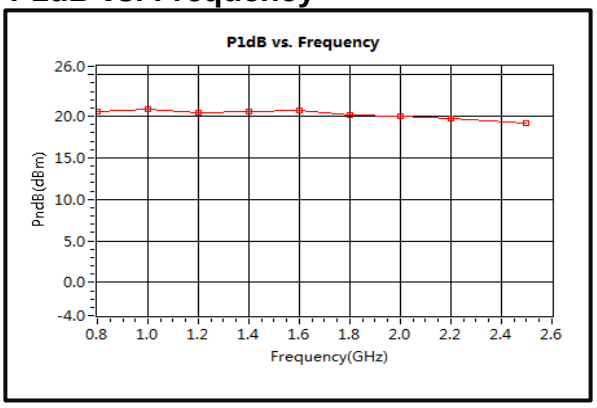
Isolation



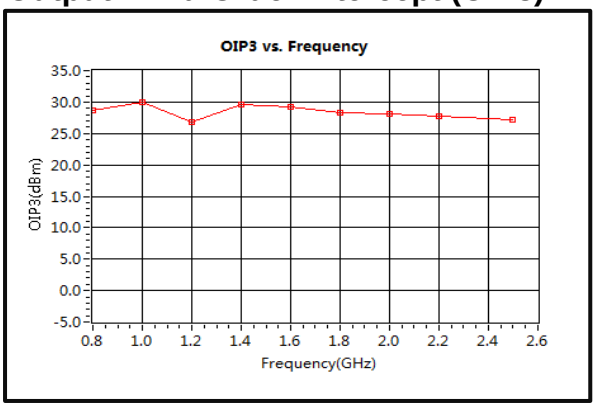
Gain vs. Output Power



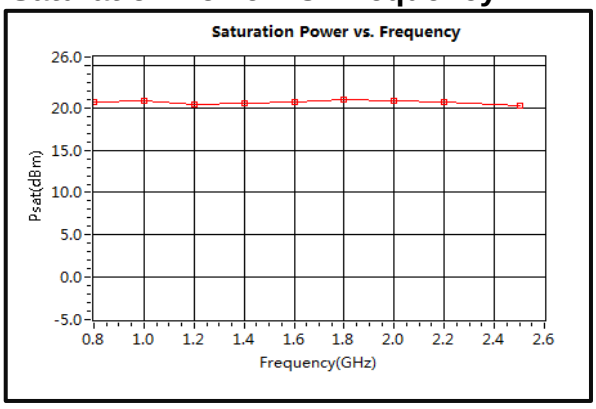
P1dB vs. Frequency



Output Third Order Intercept (OIP3)



Saturation Power vs. Frequency



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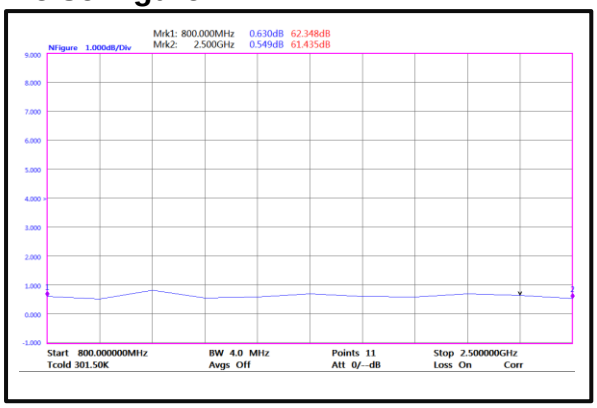
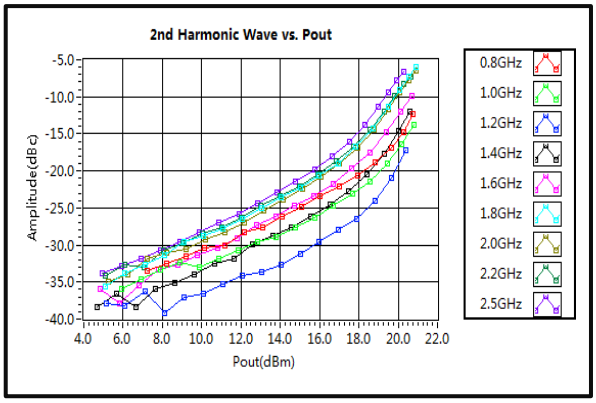
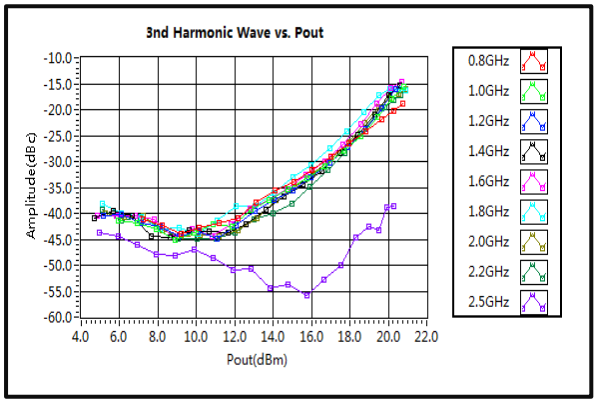
Noise Figure



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power