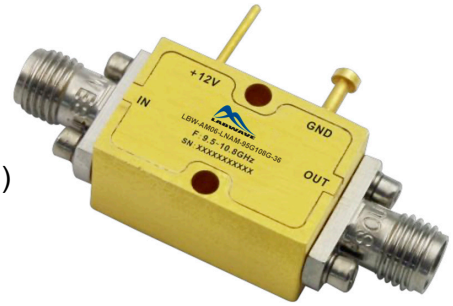
P/N:LBW-AM06-LNAM-95G108G-36

Малошумящий усилитель 9,5 ГГц — 10,8 ГГц



Характеристики:

- Коэффициент усиления: 36 дБ (тип.)
- Шум: 2,0 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +15 дБм (тип.)
- Напряжение питания: +12 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	9.5		10.8	GHz
Gain	34	36		dB
Gain Flatness		±0.5	±1.0	dB
Gain Variation Over Temperature (-40ºC~+85ºC)		±0.8	±1.0	dB
Noise Figure		2.0	2.5	dB
Input VSWR		1.6	1.8	: 1
Output VSWR		1.5	1.8	: 1
Output 1dB Compression Point (P1dB)	13	15		dBm
Saturated Output Power (Psat)		16		dBm
Output Third Order Intercept (OIP3)		25		dBm
Supply Current (Vcc=+12V)		180	210	mA
Isolation S12		-60		dB

Weight	0.71 ounces	Impedance	50ohms
Input /Output Connectors	SMA-Female	Material	Aluminum
Finish	Gold Plated	Package Sealing	Epoxy Sealed (Standard)
			Hermetically Sealed (Option with extra charge)

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Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power (RFIN)	-15dBm

Biasing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +12V biasing

Power OFF Procedure

Step 1	Turn off +12V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

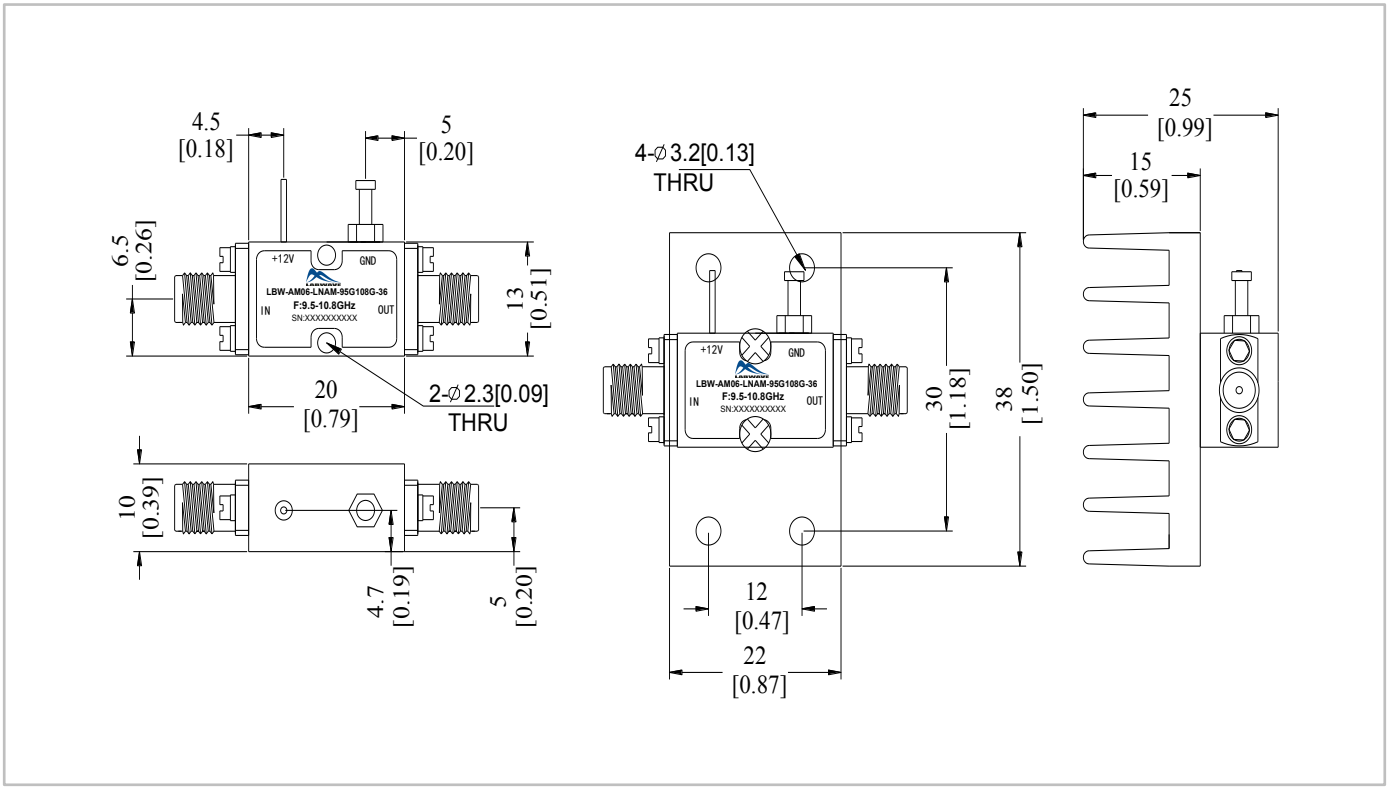
Environmental Specifications

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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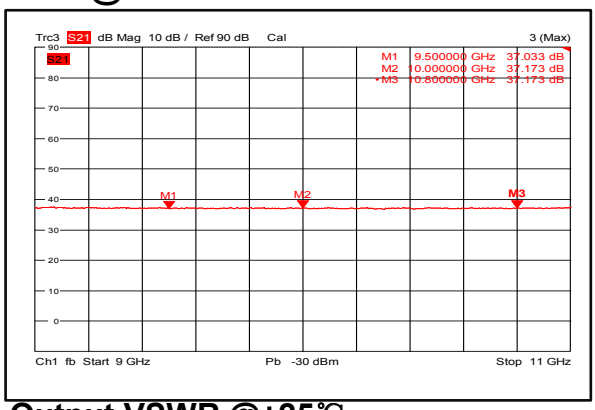
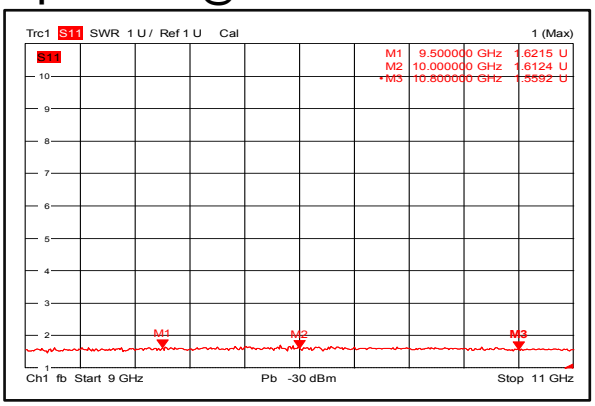
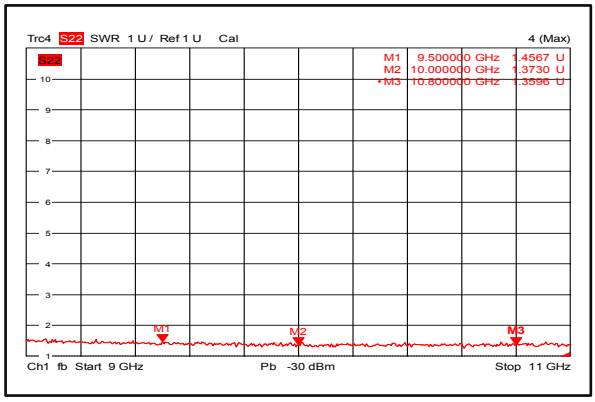
Gain @+25℃



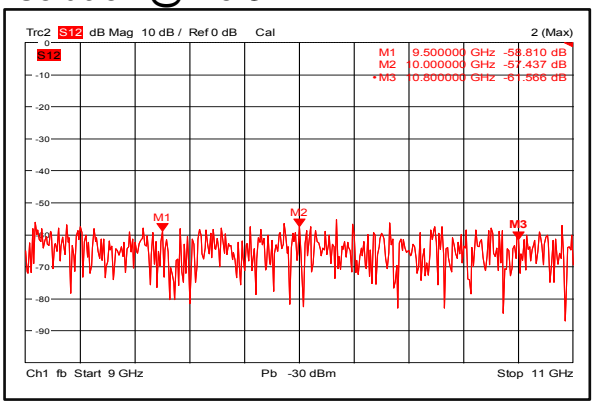
Input VSWR @+25℃



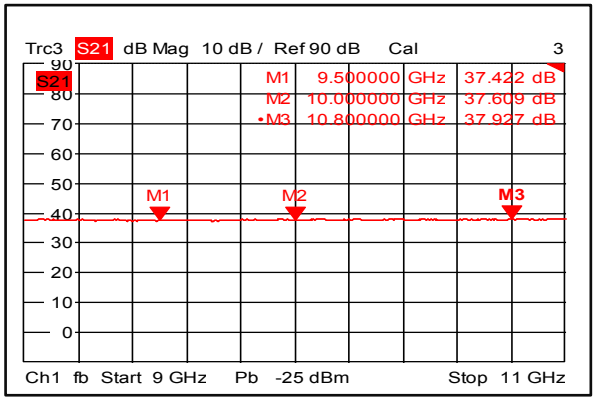
Output VSWR @+25℃



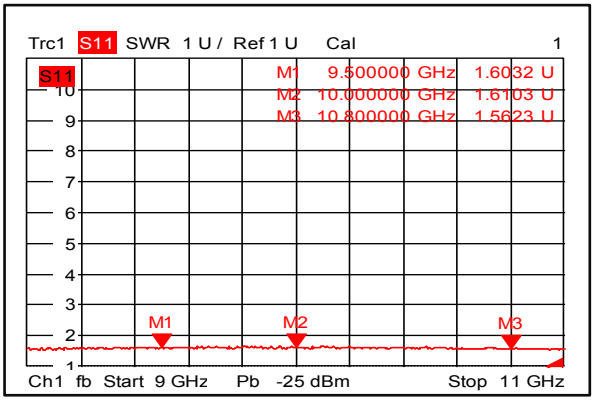
Isolation @+25℃



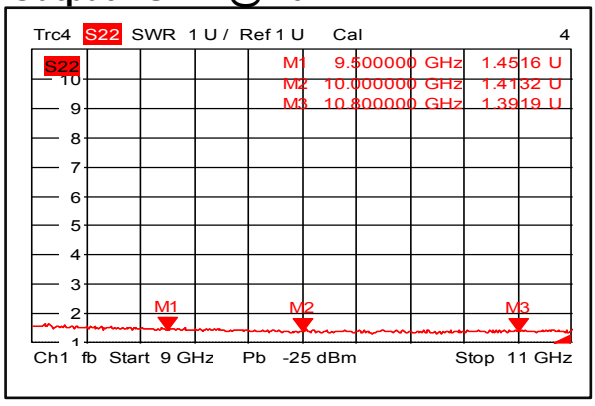
Gain @-40℃



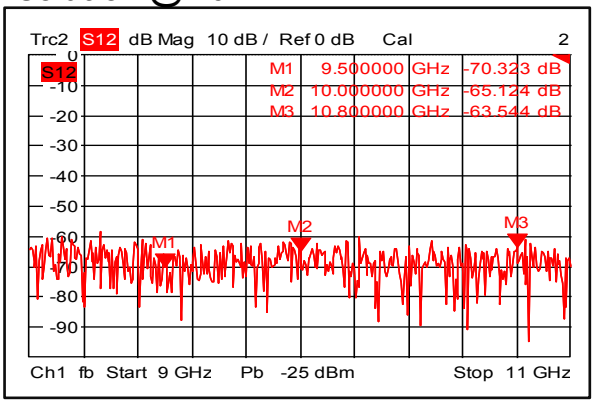
Input VSWR @-40℃



Output VSWR @-40℃



Isolation @-40℃



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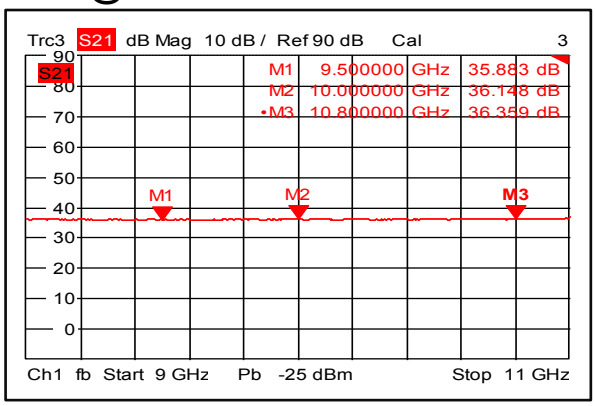
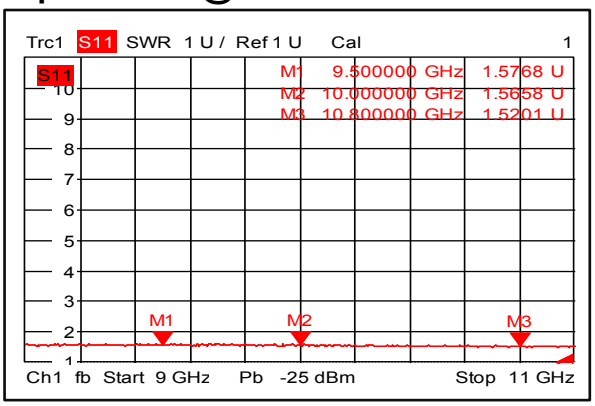
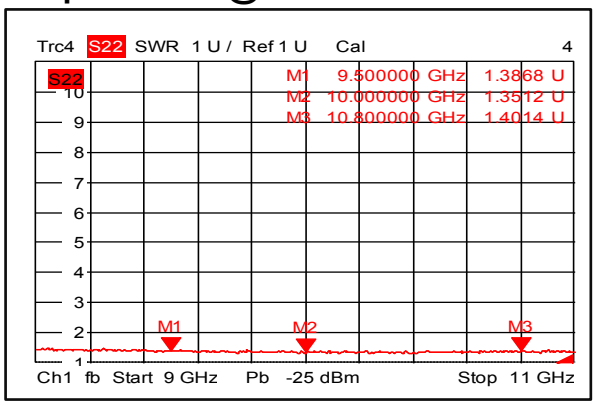
Gain @+85℃



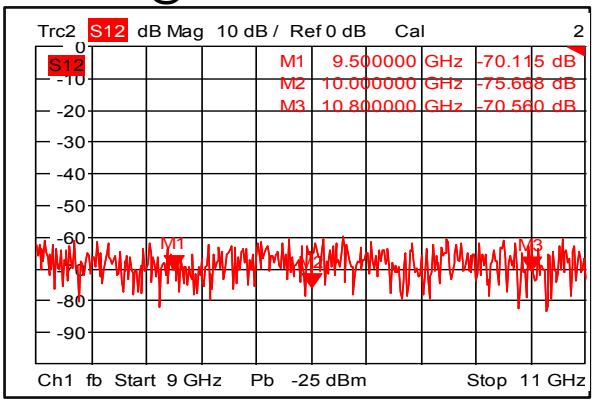
Input VSWR @+85℃



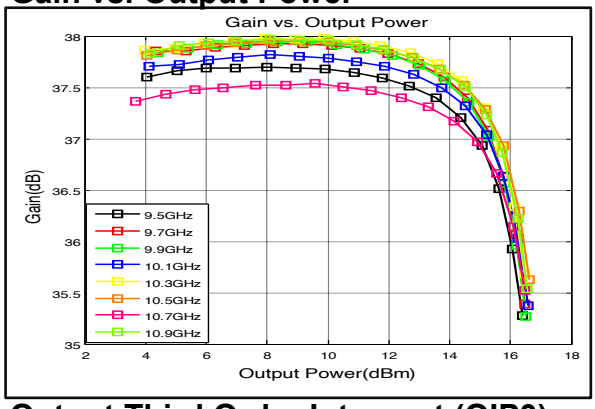
Output VSWR @+85℃



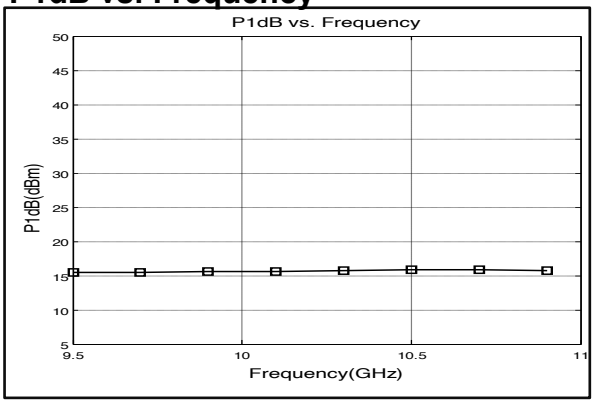
Isolation @+85℃



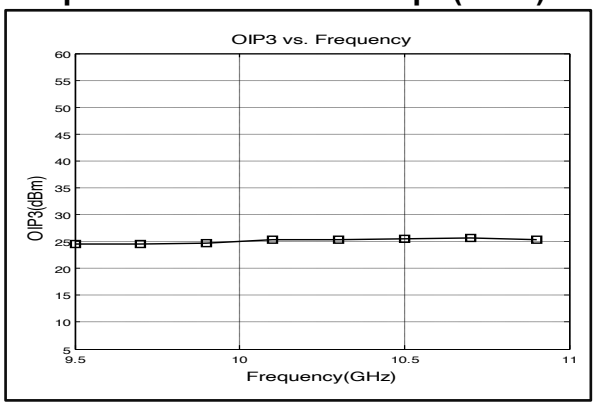
Gain vs. Output Power



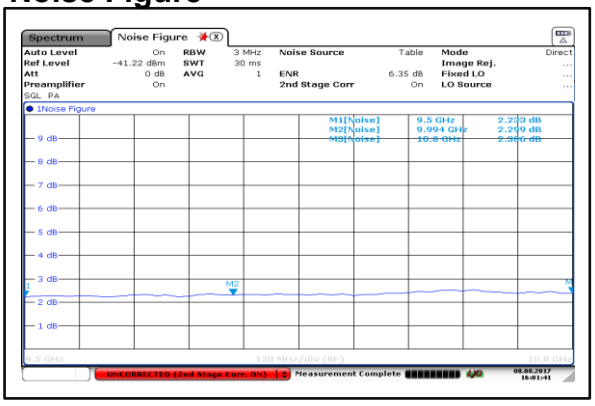
P1dB vs. Frequency



Output Third Order Intercept (OIP3)



Noise Figure



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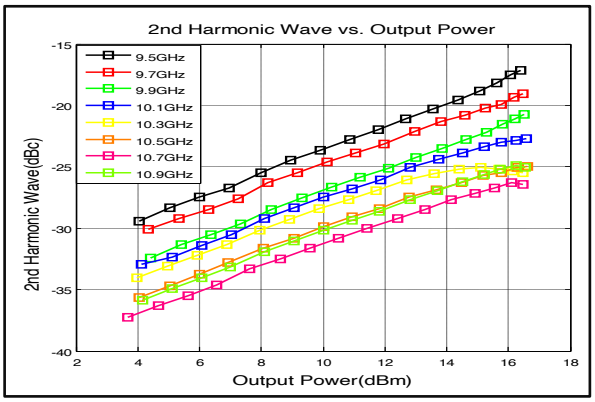
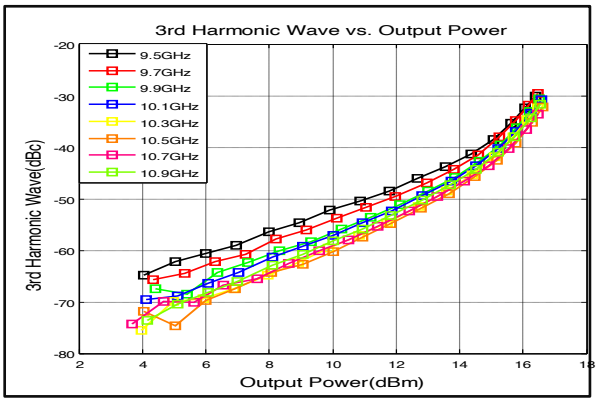
2nd Harmonic Wave output Power



3rd Harmonic Wave output Power



4th Harmonic Wave output Power