P/N:LBW-AM06-LNAM-01G20G-32

Широкополосный малошумящий усилитель 0,1 ГГц — 20 ГГц

Характеристики:

- Коэффициент усиления: 28 дБ (тип.)
- Шум: 1,8 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +16 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.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.1		0.2	0.2		10	10		20	GHz
Gain	27	30	32	27	29	32	25	27	31	dB
Gain Flatness		±1.0			±1.0	±1.5		±1.5	±2.0	dB
Gain Variation Over Temperature (-40℃~+85℃)		±0.6			±0.8			±1.0		dB
Noise Figure		3.5			1.5	3.5		2.5	3.6	dB
Input VSWR		3			1.8	2		1.8	2	: 1
Output VSWR		1.5			1.5	1.8		1.5	1.8	: 1
Output 1dB Compression Point (P1dB)		22		22	24		20	22		dBm
Saturated Output Power (Psat)		24			25			23		dBm
Output Third Order Intercept (OIP3)		28			28			27		dBm
Supply Current (Vcc=+12V)		260	300		260	300		260	300	mA
Isolation S12		-60			-65			-58		dB

Weight	Net	1.3 ounces (Max.)	Impedance	50ohms
	Including Heat sink	3.1ounces (Max.)		
Input / Output Connectors		SMA-Female	Material	Aluminum
Finish		Gold Plated	Package Sealing	Epoxy Sealed (Standard)
				Hermetically Sealed (Optional)

P/N:LBW-AM06-LNAM-01G20G-32

Широкополосный малошумящий усилитель 0,1 ГГц — 20 ГГц

Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power (RFIN)	+4dBm

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

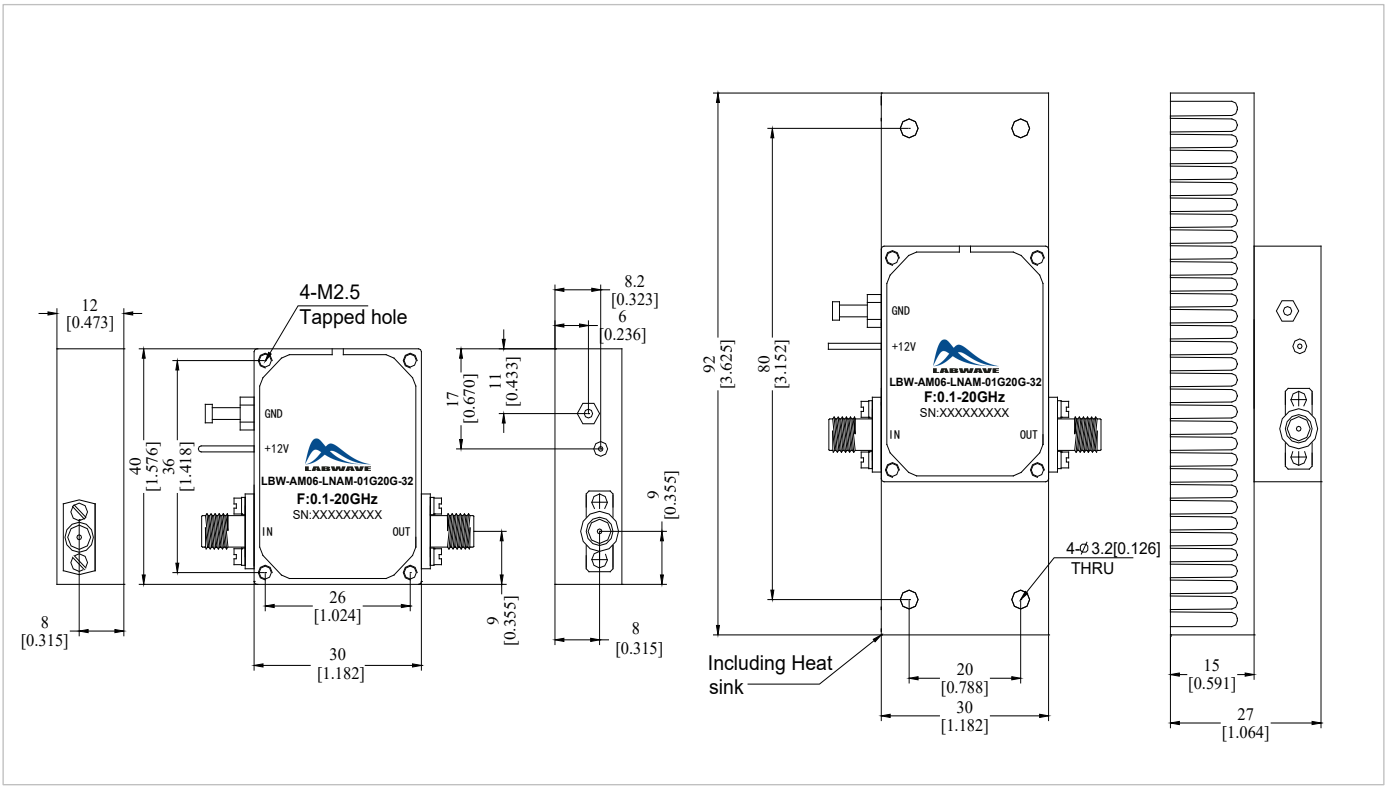
Environmental Specifications

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)

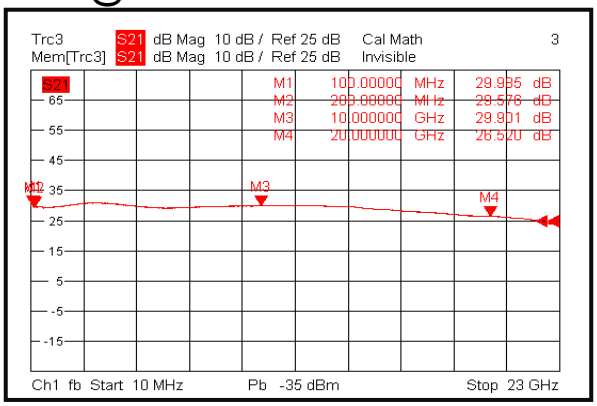
Heat Sink required during operation(Sold Separately)



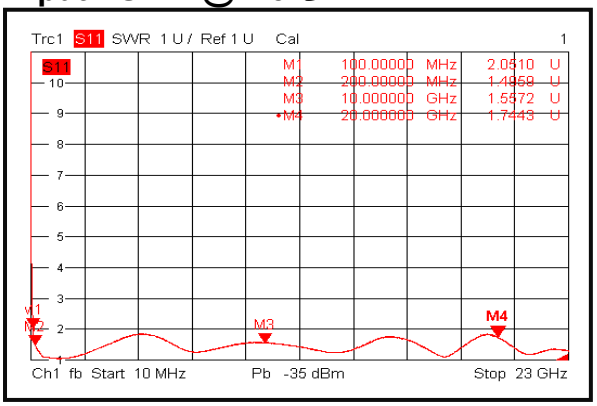
P/N:LBW-AM06-LNAM-01G20G-32

Широкополосный малошумящий усилитель 0,1 ГГц — 20 ГГц

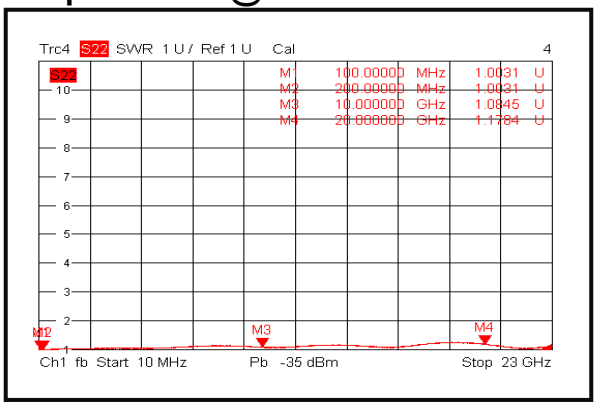
Gain @+25℃



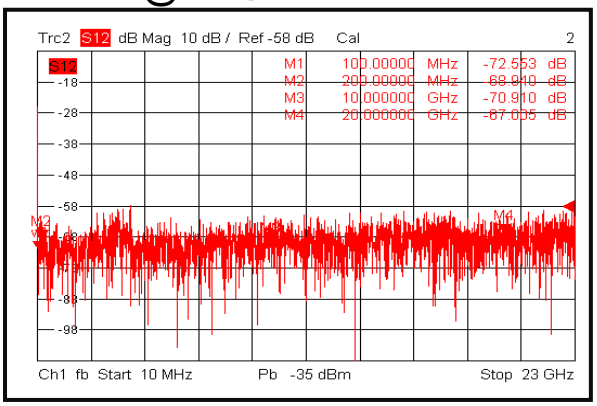
Input VSWR @+25℃



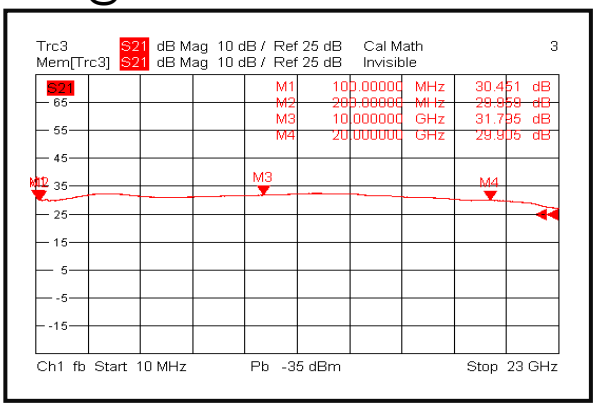
Output VSWR @+25℃



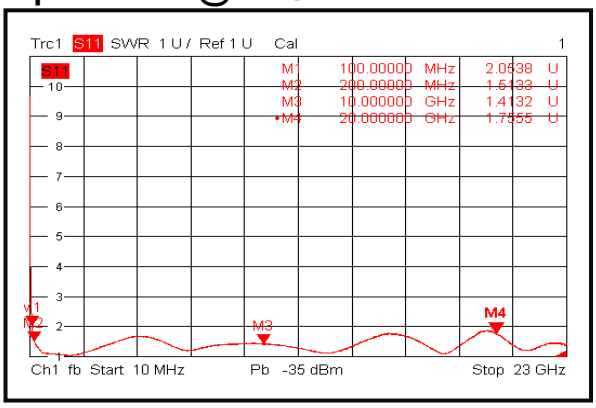
Isolation @+25℃



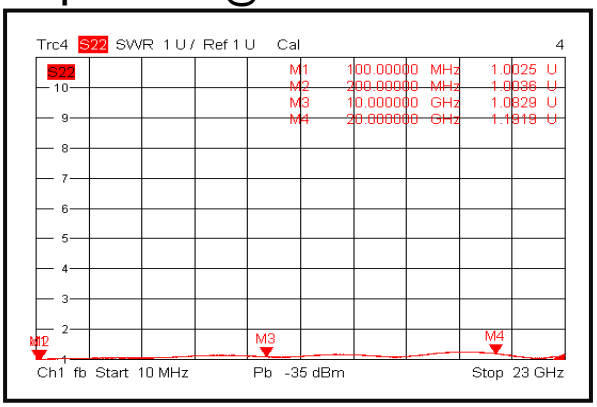
Gain @-40℃



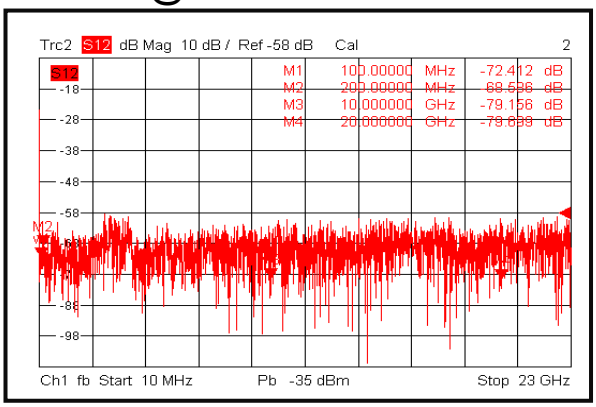
Input VSWR @-40℃



Output VSWR @-40℃



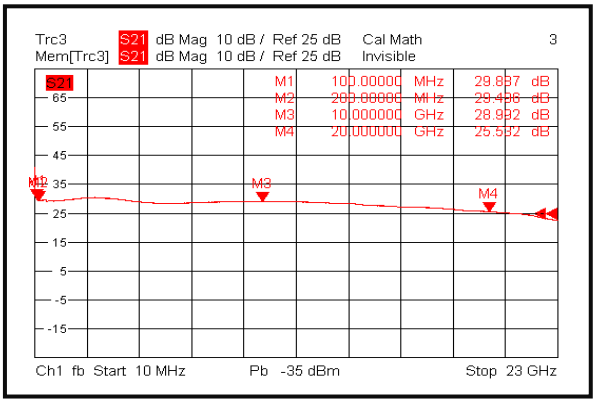
Isolation @-40℃



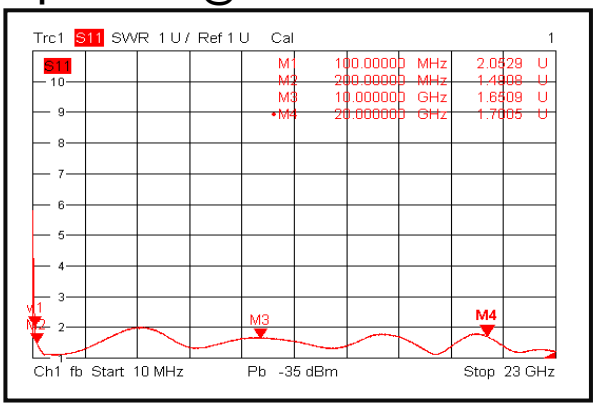
P/N:LBW-AM06-LNAM-01G20G-32

Широкополосный малошумящий усилитель 0,1 ГГц — 20 ГГц

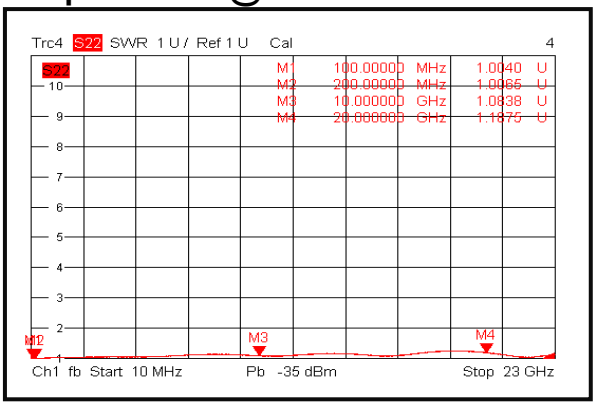
Gain @+85℃



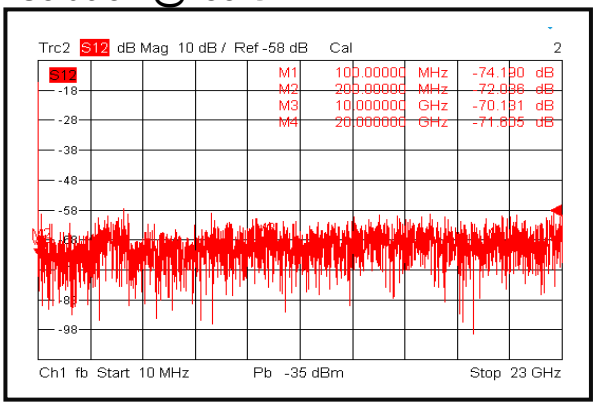
Input VSWR @+85℃



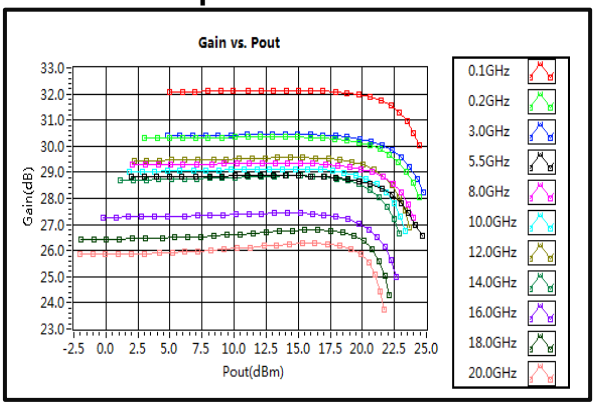
Output VSWR @+85℃



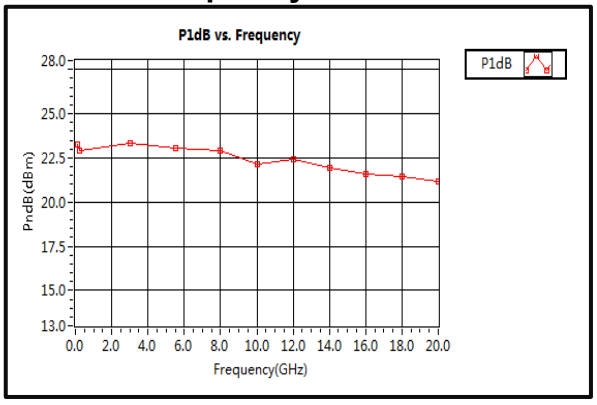
Isolation @+85℃



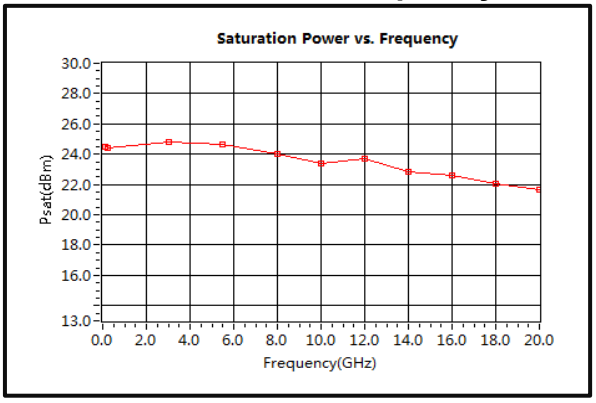
Gain vs. Output Power



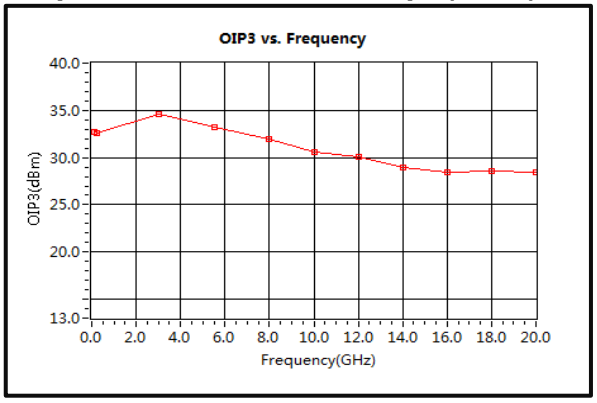
P1dB vs. Frequency



Saturation Power vs. Frequency



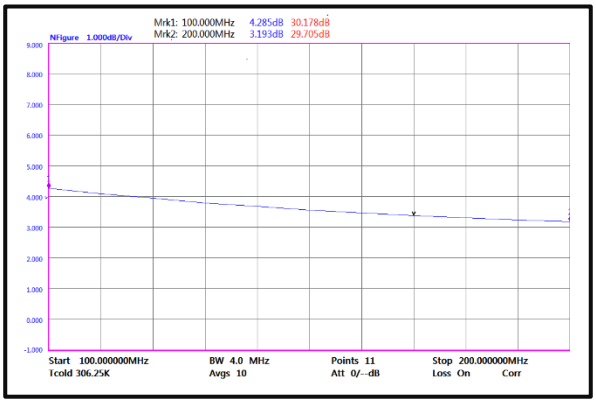
Output Third Order Intercept (OIP3)



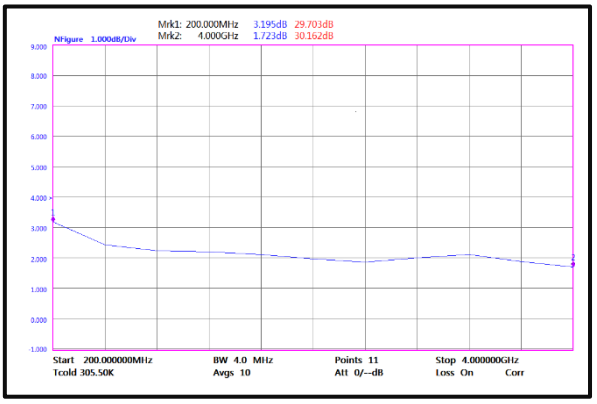
P/N:LBW-AM06-LNAM-01G20G-32

Широкополосный малошумящий усилитель 0,1 ГГц — 20 ГГц

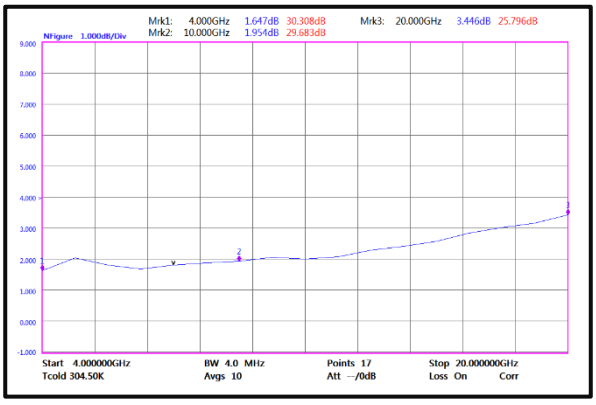
Noise Figure(0.1-0.2GHz)



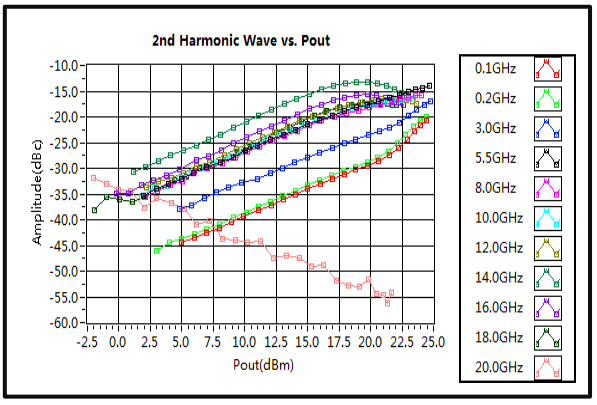
Noise Figure(0.2-4GHz)



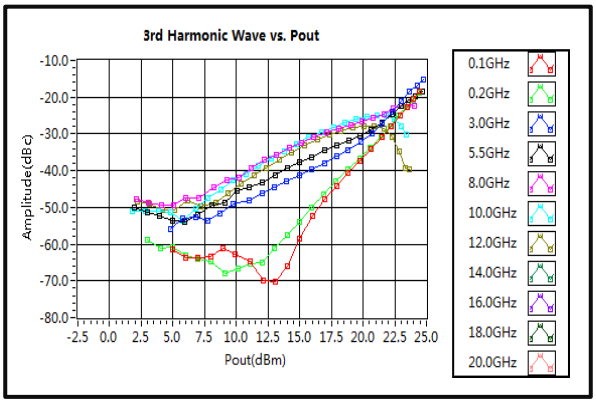
Noise Figure(4-20GHz)



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power