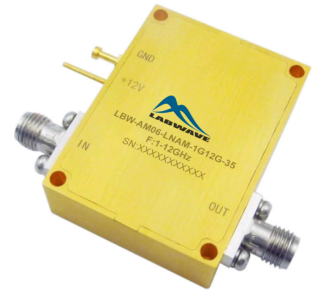


Характеристики:

- Коэффициент усиления: 35 дБ (тип.)
- Шум: 1,8 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +26 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.	Units
Frequency Range	1		6	6		12	GHz
Gain	30	35		29	34		dB
Gain Flatness		±1.0			±1.0		dB
Gain Variation Over Temperature (-40°C~+85°C)		±0.8			±1.0		dB
Noise Figure		1.8	2.5		1.8	2.8	dB
Input VSWR		1.6	2.0		1.7	2.0	: 1
Output VSWR		1.5	2.0		1.5	2.0	: 1
Output 1dB Compression Point (P1dB)	24	26		24	25		dBm
Saturated Output Power (Psat)		27			26		dBm
Output Third Order Intercept (OIP3)		35			32		dBm
Supply Current (Vcc=+12V)		320	400		320	400	mA
Isolation S12		-65			-60		dB

Weight	Net	3.30 ounces (Max.)	Impedance	50ohms
	Including Heat sink	5.20 ounces (Max.)		
Input / Output Connectors	SMA-Female		Material	Aluminum
Finish	Gold Plated	Package Sealing	Epoxy Sealed (Standard)	
			Hermetically Sealed (Option with extra charge)	

Широкополосный маломощный усилитель 1 ГГц — 12 ГГц

Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power (RFIN)	+2dBm

Biassing 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

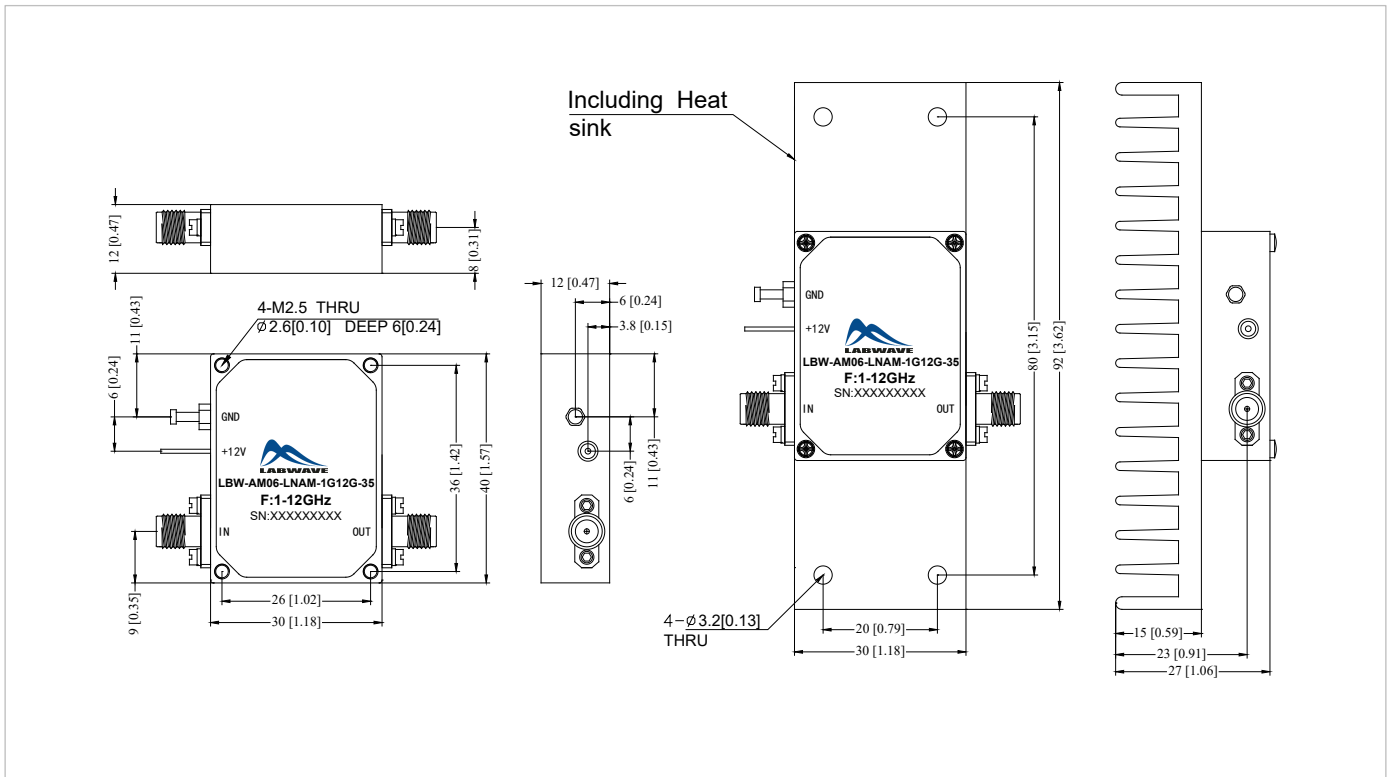
Environmental Specifications

Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
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 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

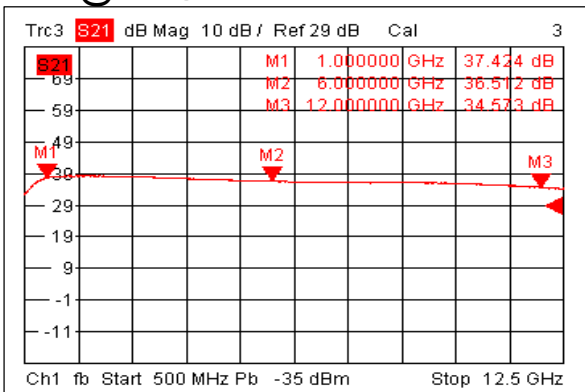
All Dimensions in mm (inches)
Housing Tolerances $\pm 0.1(0.004)$
(Excl Heat Sink).

Heat Sink required during operation(Sold Separately)

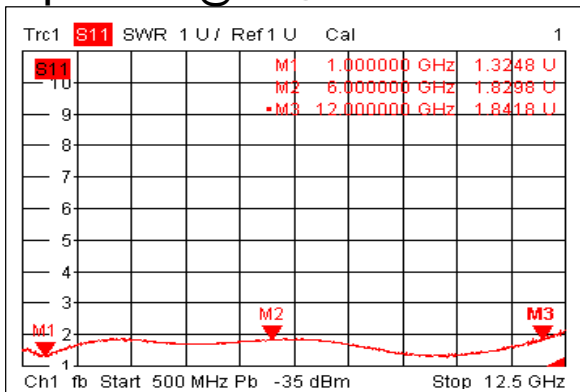


Широкополосный маломощный усилитель 1 ГГц — 12 ГГц

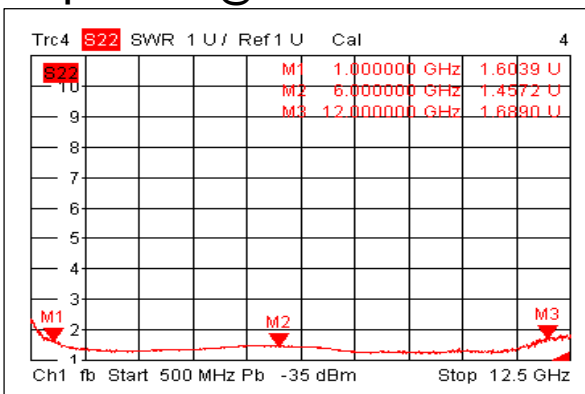
Gain@+25°C



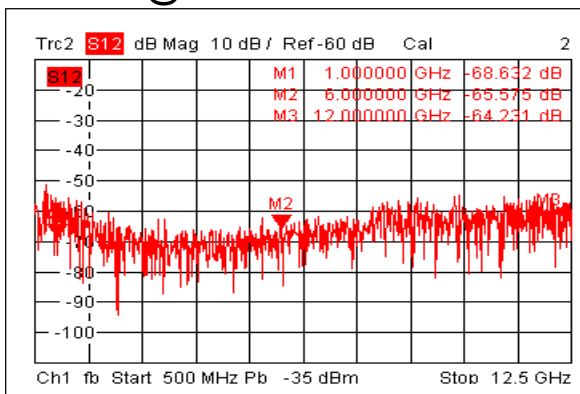
Input VSWR@+25°C



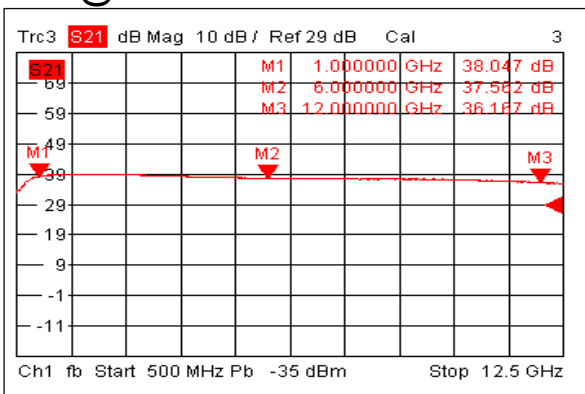
Output VSWR@+25°C



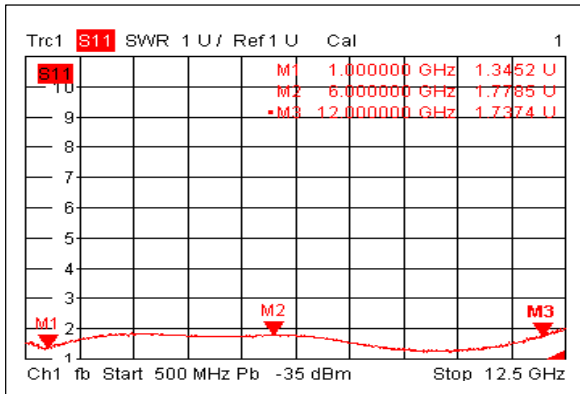
Isolation@+25°C



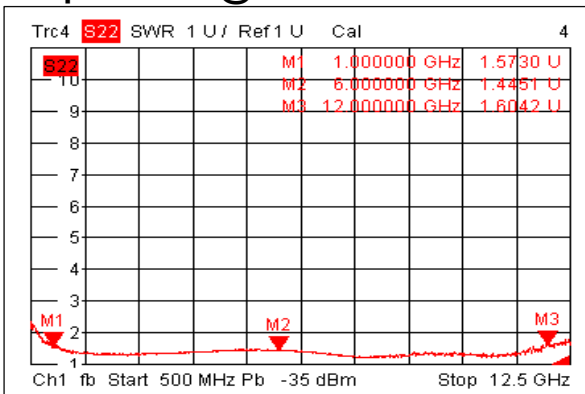
Gain@-40°C



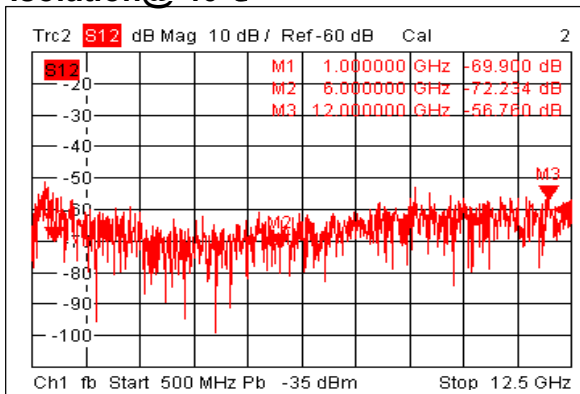
Input VSWR@-40°C



Output VSWR@-40°C

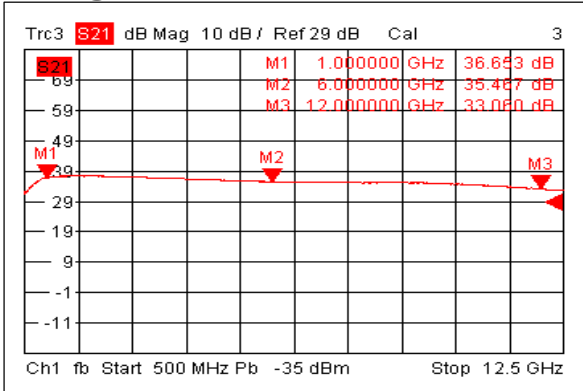


Isolation@-40°C

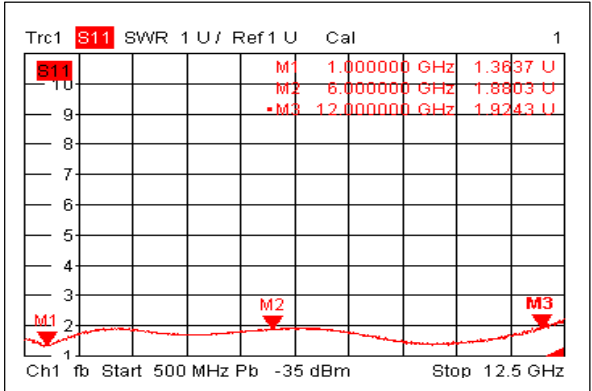


Широкополосный маломощный усилитель 1 ГГц — 12 ГГц

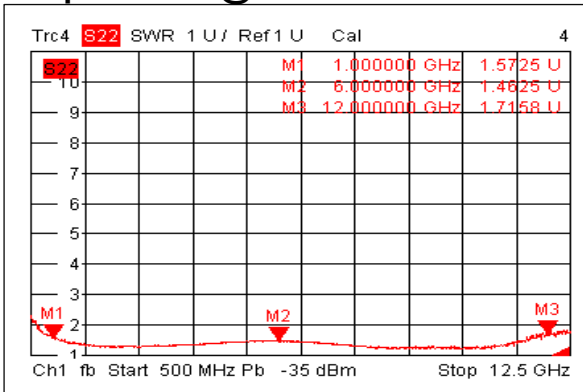
Gain@+85°C



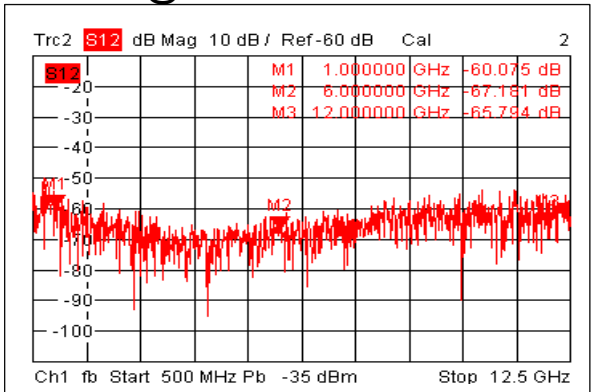
Input VSWR@+85°C



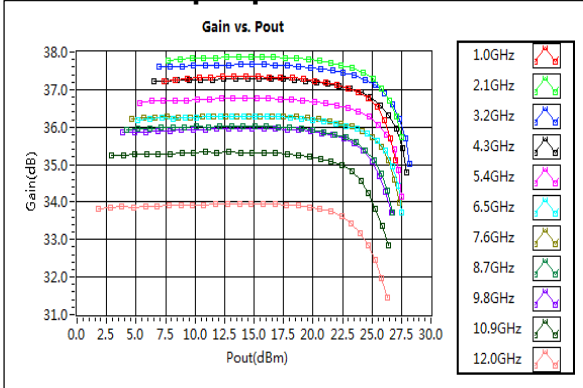
Output VSWR@+85°C



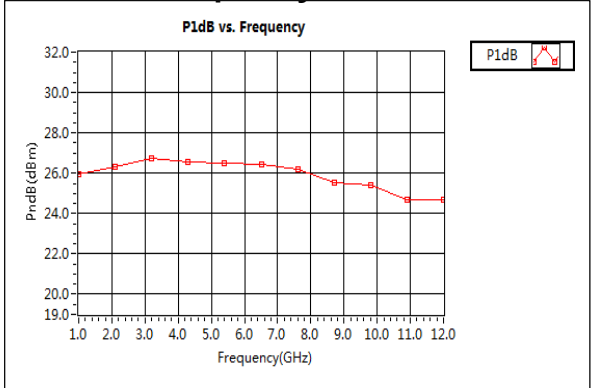
Isolation@+85°C



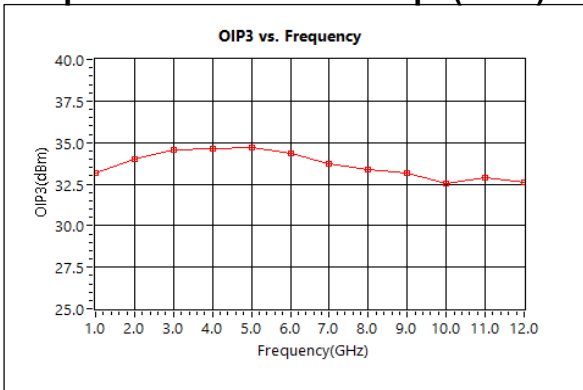
Gain vs. output power



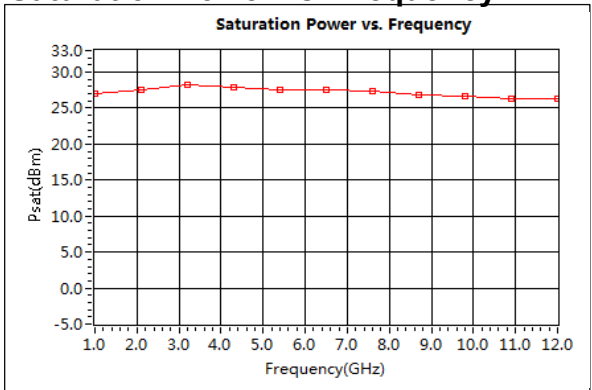
P1dB vs. Frequency



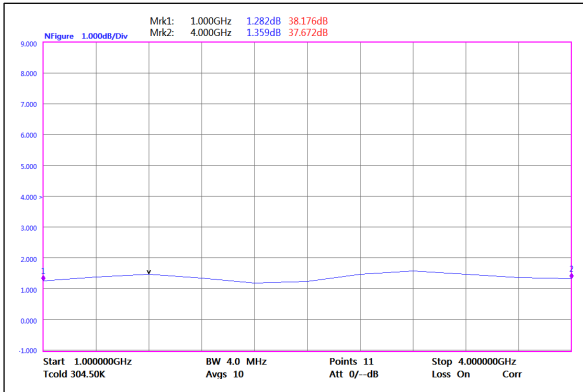
Output Third Order Intercept (OIP3)



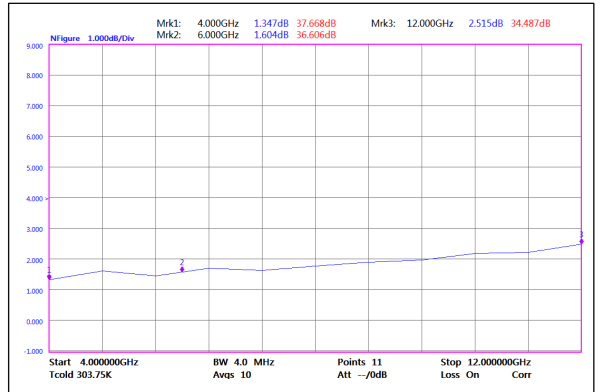
Saturation Power vs. Frequency



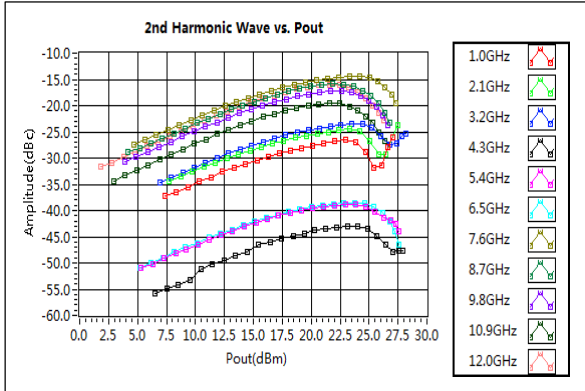
Noise Figure (1-4GHz)



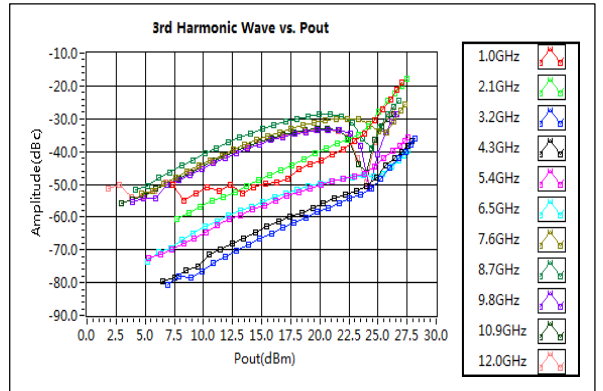
Noise Figure (4-12GHz)



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power

