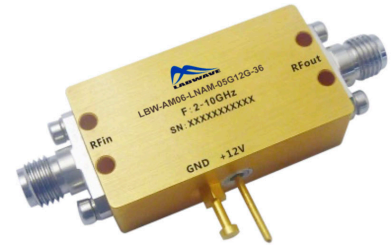


### Характеристики:

- Коэффициент усиления: 32 дБ (тип.)
- Шум: 2,5 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +15 дБм (тип.)
- Напряжение питания: +12 В



### 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	2		10	0.5		12	GHz
Gain	30	32	36	29	32	36	dB
Gain Flatness		±1.5	±2.5		±2.0	±3.0	dB
Gain Variation Over Temperature (-40°C~+85°C)		±1.0			±1.0		dB
Noise Figure		2.5	3.5		2.5	3.5	dB
Input VSWR		2.5			2.5		:1
Output VSWR		2.5			2.5		:1
Output 1dB Compression Point (P1dB)	13	15		12	15		dBm
Saturated Output Power (Psat)		17			17		dBm
Output Third Order Intercept (OIP3)		27			27		dBm
Isolation S12		-50			-50		dB
Supply Current (Vcc=+12V)		120	200		120	200	mA

Weight	Net	0.65 Max. ounces	Impedance	50ohms
	Including Heat sink	3.0Max. ounces		
Input / Output Connectors	SMA-Female		Material	Aluminum
Finish	Gold Plated		Package Sealing	Epoxy Sealed (Standard)
				Hermetically Sealed (Optional)

Широкополосный маломощный усилитель 0,5 ГГц — 12 ГГц

## Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power	-12dB m

## 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

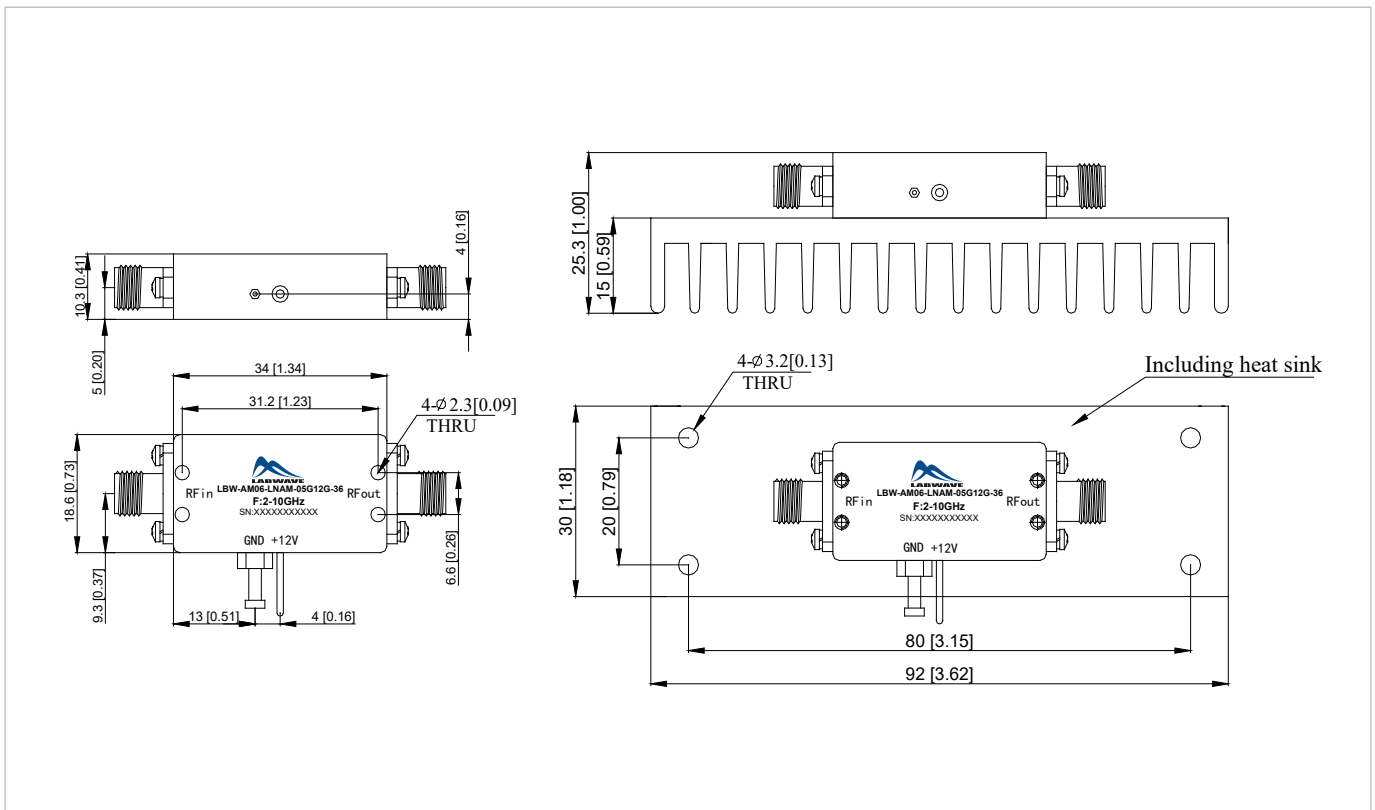
## Environmental Specifications

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:

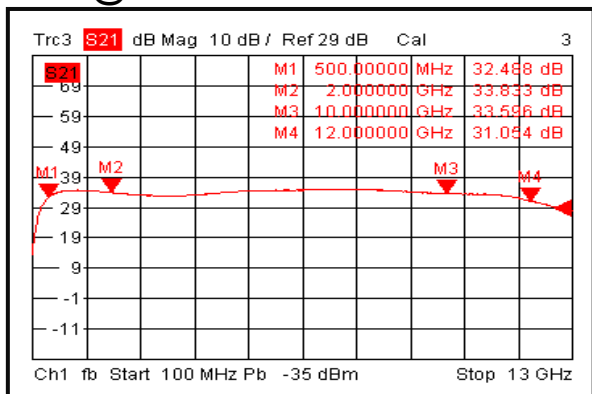
All Dimensions in mm [inches]  
 Housing Tolerances  $\pm 0.1(0.004)$   
 (Excl Heat Sink).

Heat Sink required during operation ( Sold Separately )

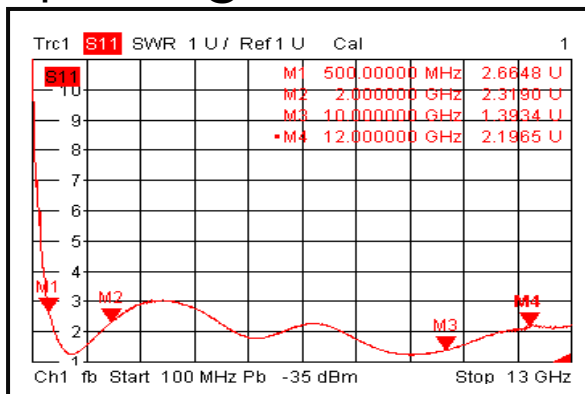


## Широкополосный малошумящий усилитель 0,5 ГГц — 12 ГГц

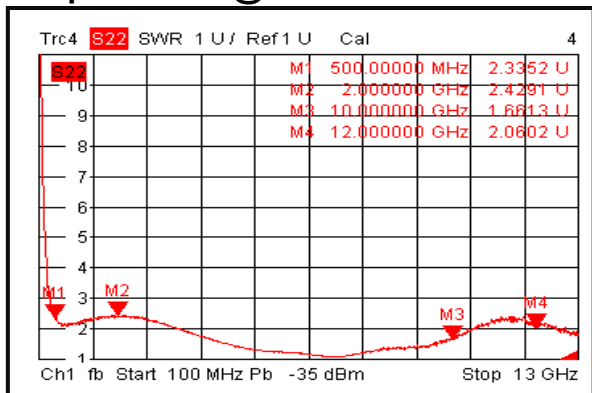
### Gain @+25°C



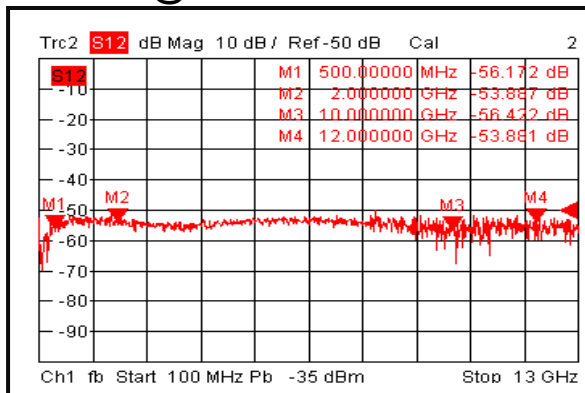
### Input VSWR @+25°C



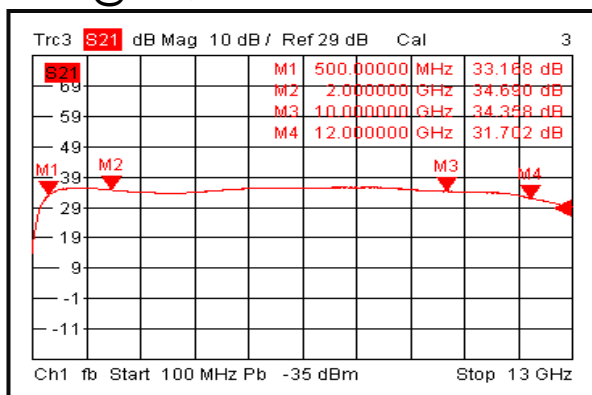
### Output VSWR @+25°C



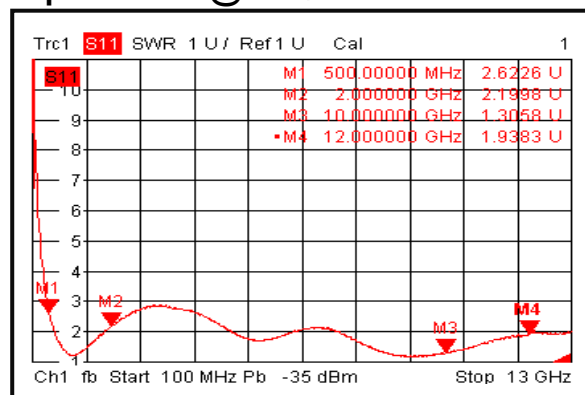
### Isolation @+25°C



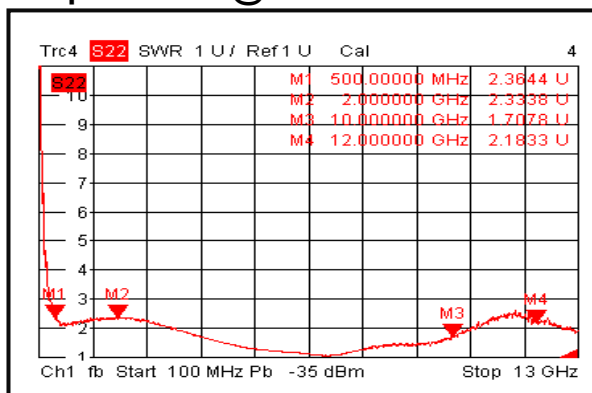
### Gain @-40°C



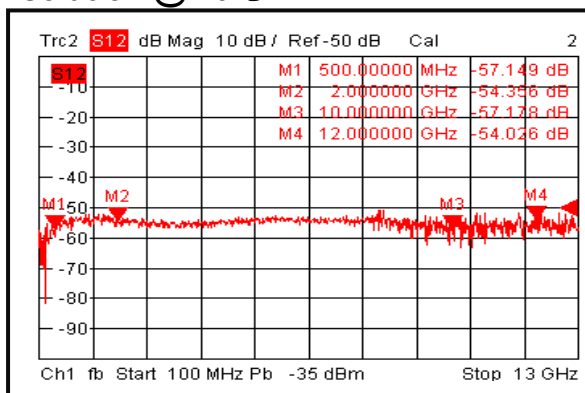
### Input VSWR @-40°C



### Output VSWR @-40°C

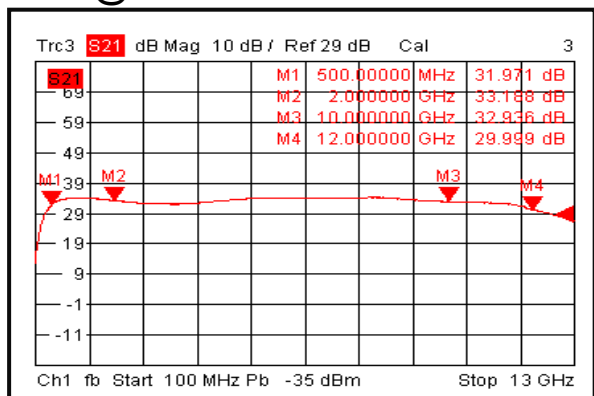


### Isolation @-40°C

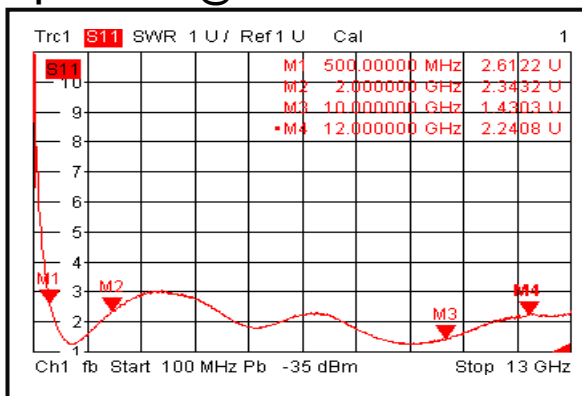


Широкополосный малошумящий усилитель 0,5 ГГц — 12 ГГц

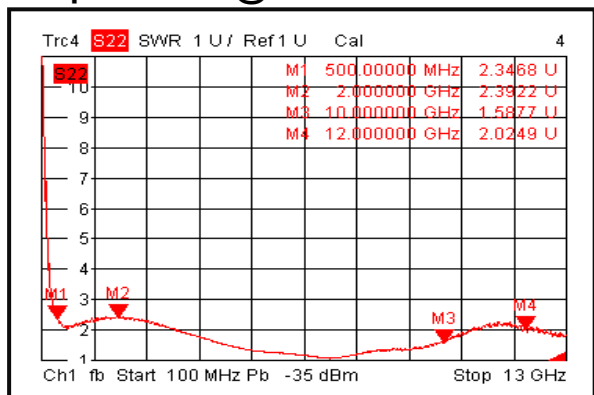
## Gain @+85°C



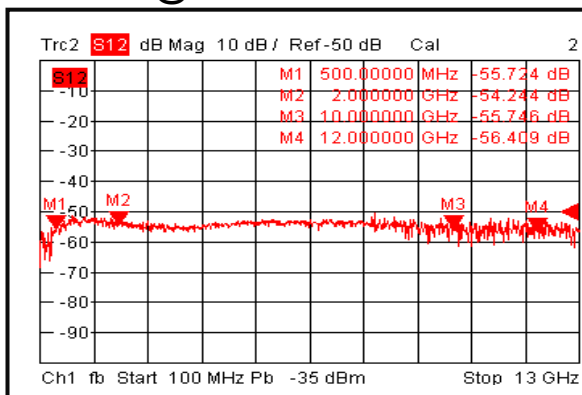
## Input VSWR @+85°C



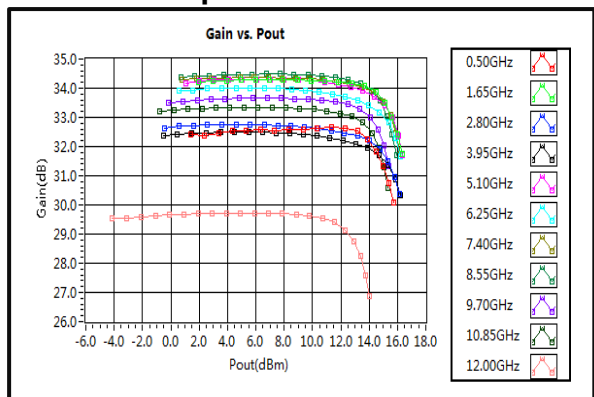
## Output VSWR @+85°C



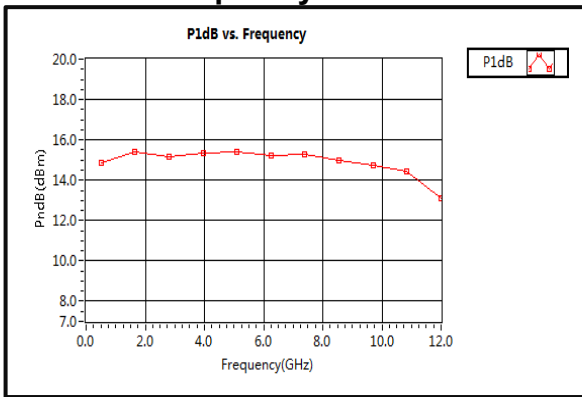
## Isolation @+85°C



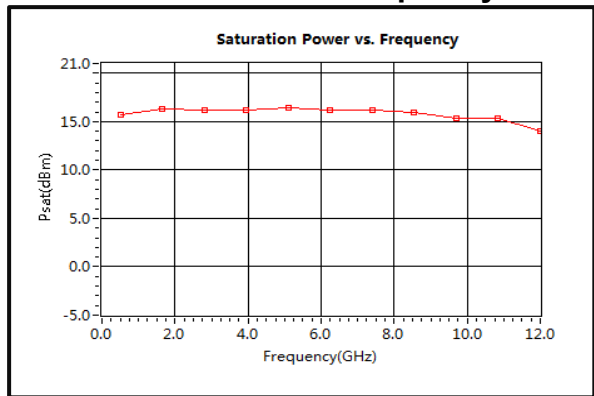
## Gain vs. Output Power



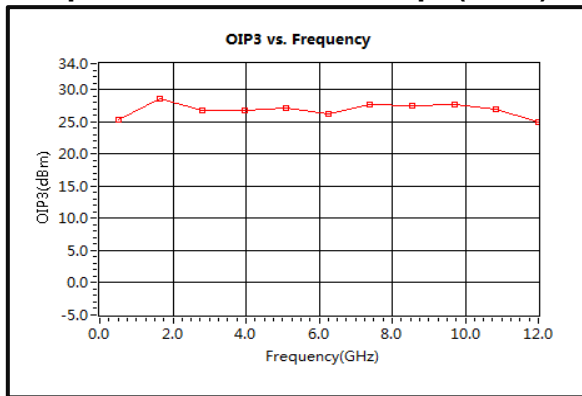
## P1dB vs. Frequency



## Saturation Power vs. Frequency

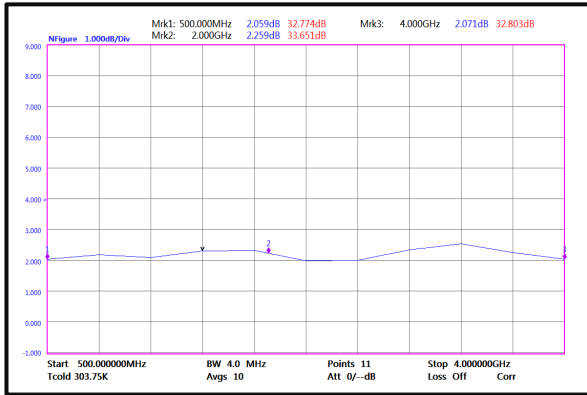


## Output Third Order Intercept (OIP3)



## Широкополосный маломуящий усилитель 0,5 ГГц — 12 ГГц

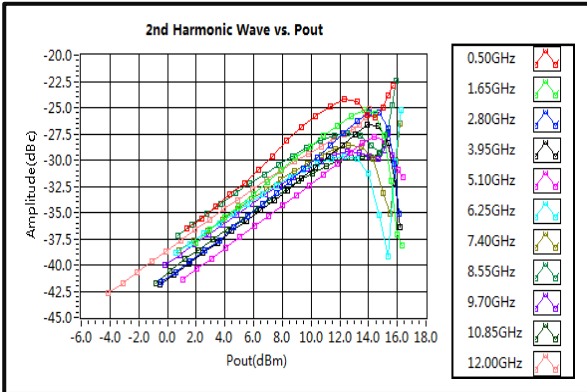
### Noise Figure (500MHz-4GHz)



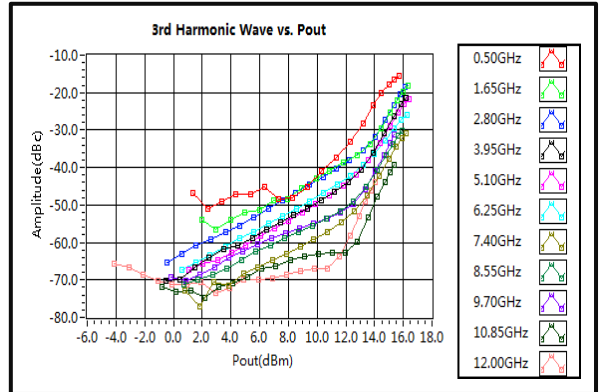
### Noise Figure (4GHz-12GHz)



### 2nd Harmonic Wave Output Power



### 3rd Harmonic Wave Output Power



### 4th Harmonic Wave Output Power

