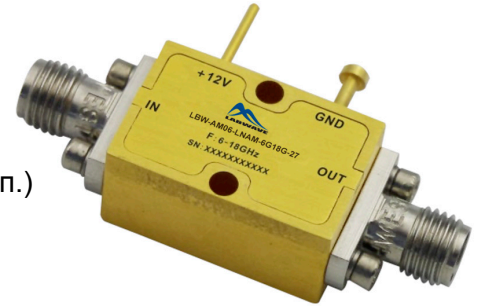


### Характеристики:

- Коэффициент усиления: 25 дБ (тип.)
- Функциональная пропускная способность: 6 ГГц — 18 ГГц
- Шум: 2,0 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +19,5 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	6		12	12		18	GHz
Gain	25	27		24	25		dB
Gain Flatness		± 1.5			± 1.0		dB
Gain Variation Over Temperature (-40°C~+85°C)		± 1.0			± 1.0		dB
Noise Figure		2.0	2.5		2.0	2.5	dB
Input VSWR		1.6	2.0		1.7	2.0	: 1
Output VSWR		1.5	1.8		1.5	2.0	: 1
Output 1dB Compression Point (P1dB)	17	19		17.5	19.5		dBm
Saturated Output Power (Psat)		20			20		dBm
Output Third Order Intercept (OIP3)		27			25		dBm
Supply Current (Vcc=+12V)		180	230		180	230	mA
Isolation S12		-55			-55		dB

Weight	Net	0.35 Max. ounces	Impedance	50ohms
	Including Heat sink	0.9 Max. ounces		
Input / Output Connectors	SMA-Female		Material	Aluminum
Finish	Gold Plated	Package Sealing	Epoxy Sealed (Standard)	
			Hermetically Sealed (Option with extra charge)	

## Широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

### Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power	0dBm

### 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

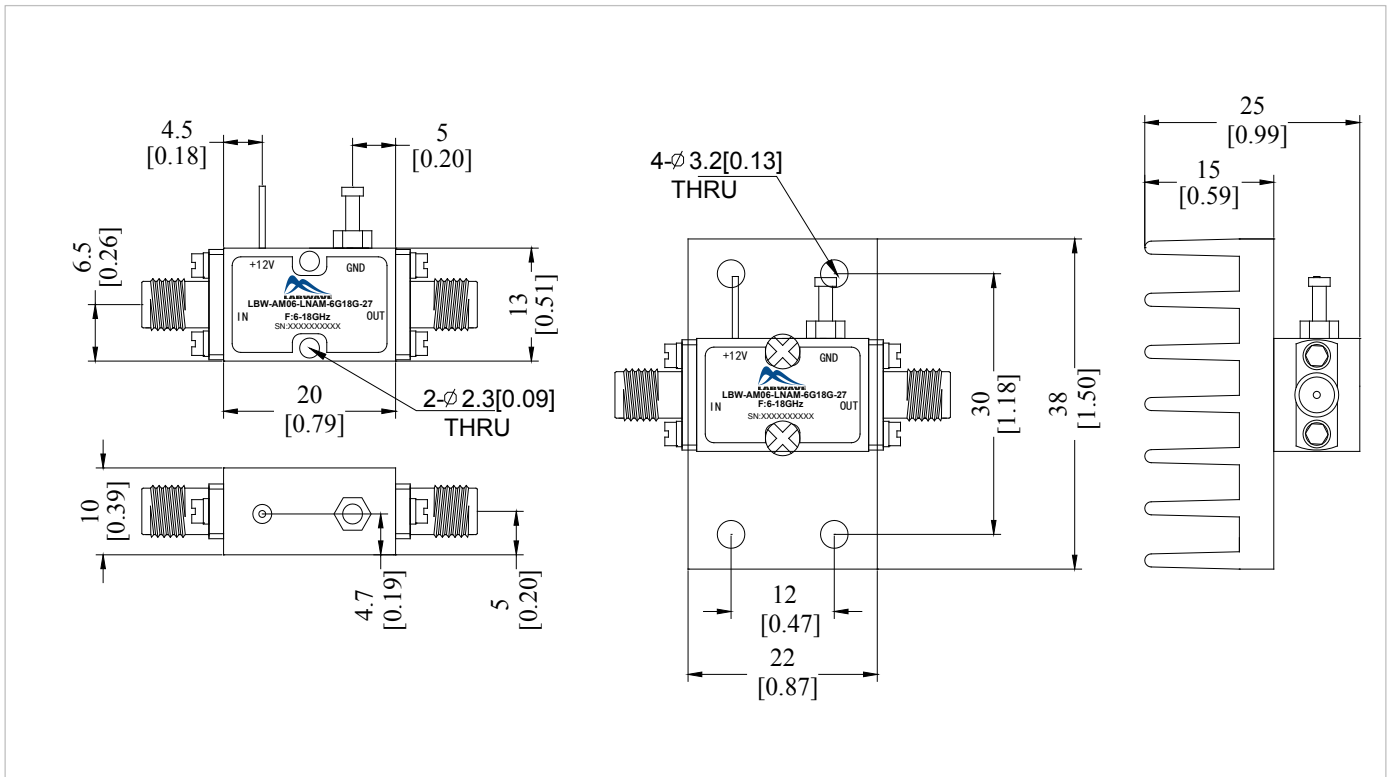
### Environmental Specifications

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:

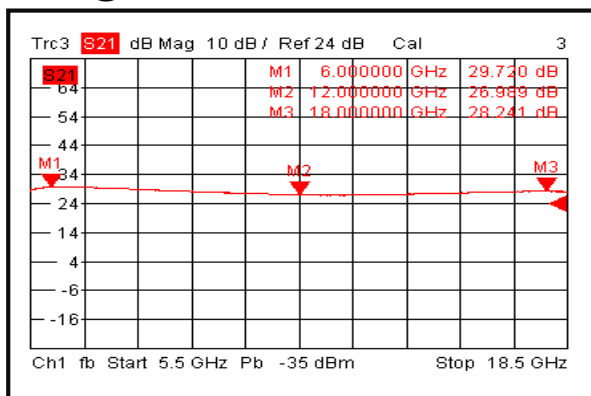
All Dimensions in mm (inches)  
 Housing Tolerances  $\pm 0.1$  (0.004)  
 (Excl Heat Sink)

Heat Sink required during operation(Sold Separately)

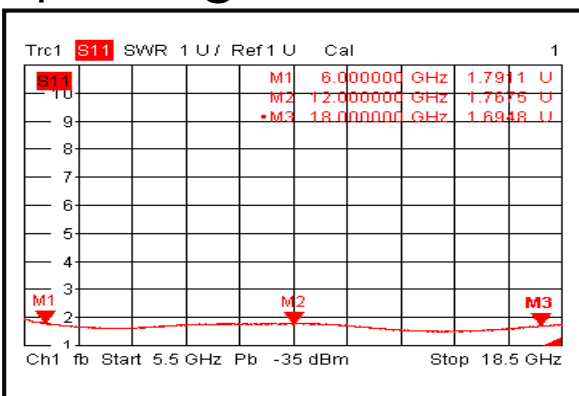


## Широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

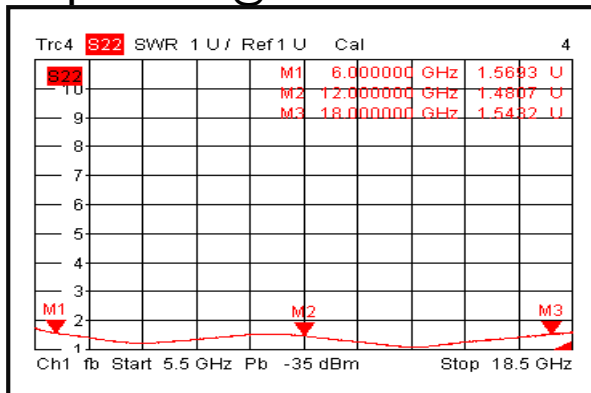
### Gain @+25°C



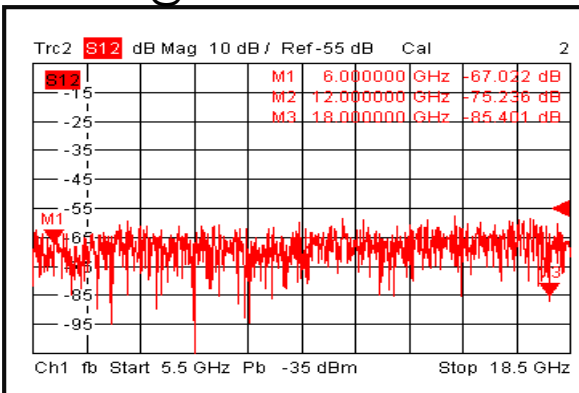
### Input VSWR @+25°C



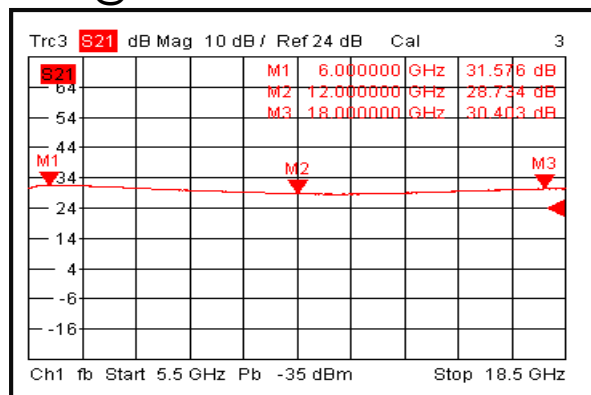
### Output VSWR @+25°C



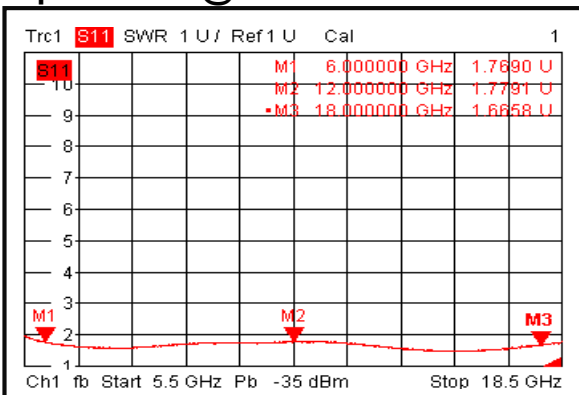
### Isolation @+25°C



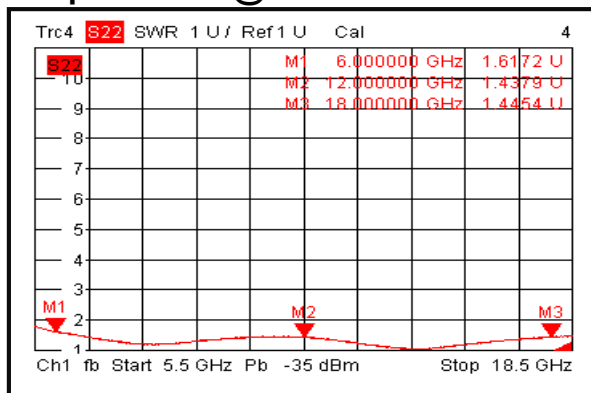
### Gain @-40°C



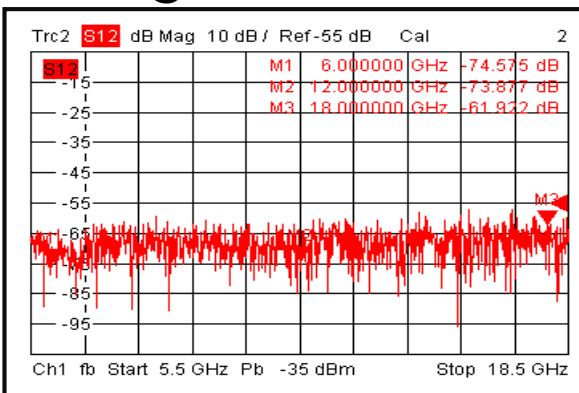
### Input VSWR @-40°C



### Output VSWR @-40°C

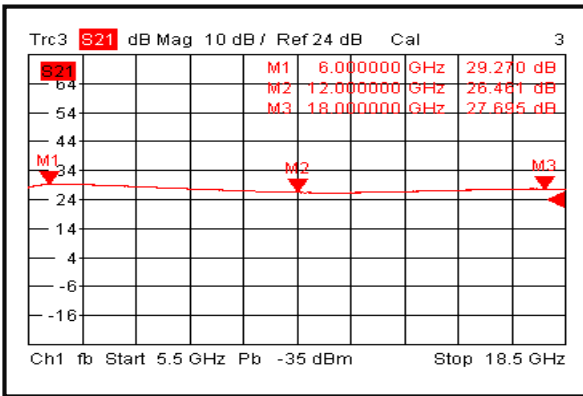


### Isolation @-40°C

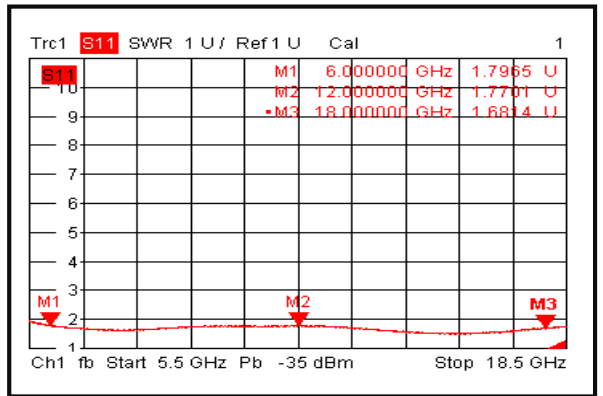


## Широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

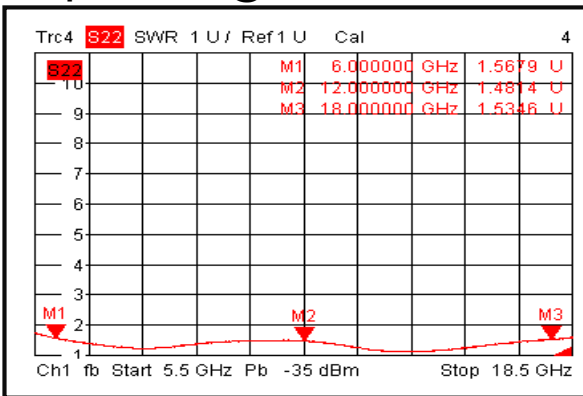
### Gain @+85°C



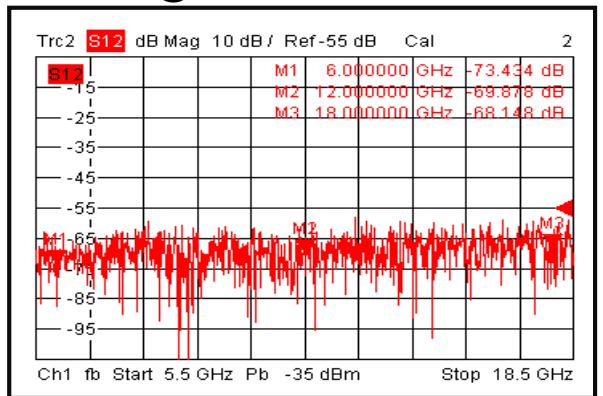
### Input VSWR @+85°C



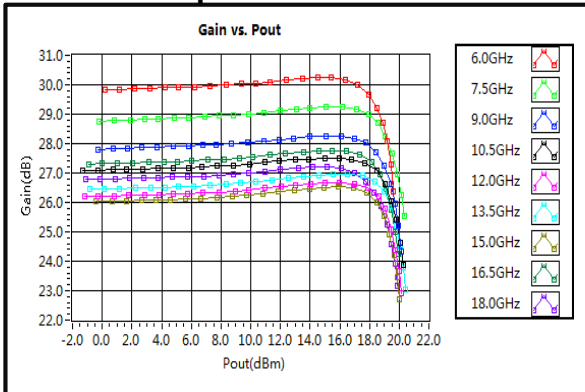
### Output VSWR @+85°C



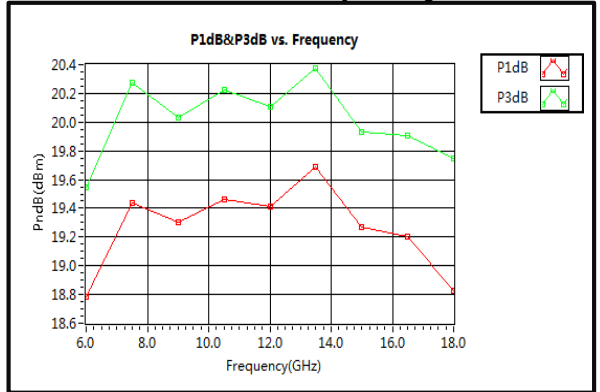
### Isolation @+85°C



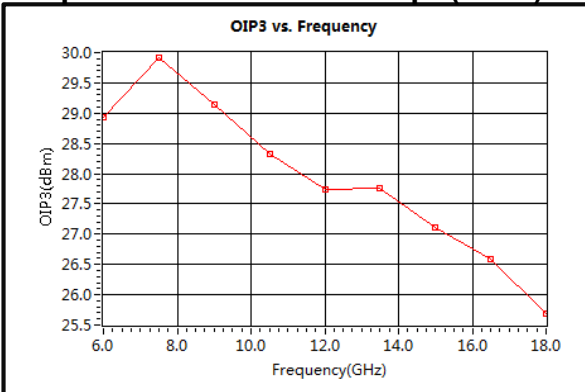
### Gain vs. Output Power



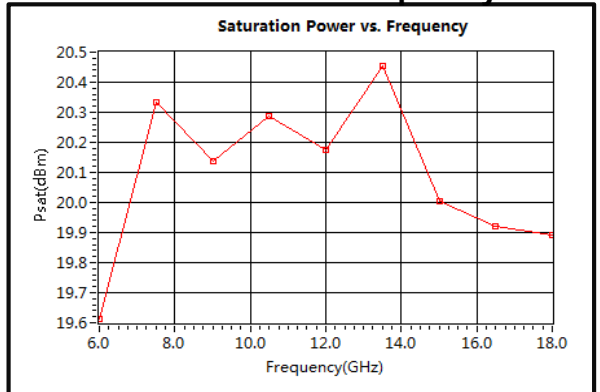
### P1dB & P3dB vs. Frequency



### Output Third Order Intercept (OIP3)

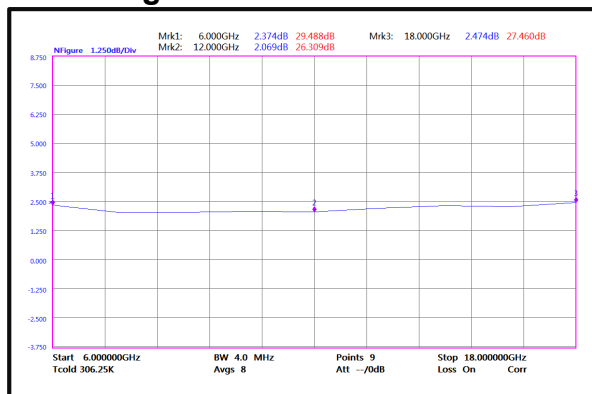


### Saturation Power vs. Frequency

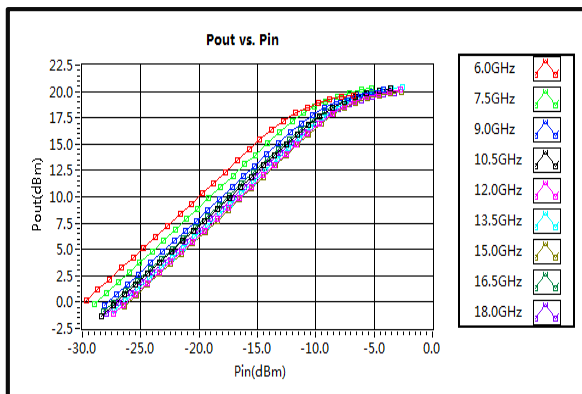


## Широкополосный маломощный усилитель 6 ГГц — 18 ГГц

### Noise Figure



### Pout vs. Pin



### Current vs. Pout

