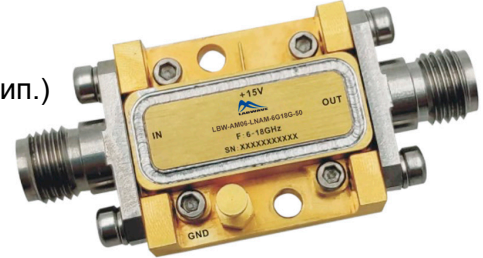


### Характеристики:

- Коэффициент усиления: 50 дБ (тип.)
- Шум: 1,5 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +19 дБм (тип.)
- Напряжение питания: +15 В



### Области применения:

- Беспроводные сети
- 5G сети
- Оборудование для тестирования и измерений
- Микроэлектроника и спутниковая связь
- Оптоволоконные сети

Parameter	Min.	Typ.	Max.	Units
Frequency Range	6		18	GHz
Gain	45	50		dB
Gain Flatness		±1.5		dB
Gain Variation Over Temperature (-40°C~+85°C)		±1.0		dB
Noise Figure		1.5	2.0	dB
Input VSWR		1.3	1.6	:1
Output VSWR		1.5	1.8	:1
Output Power for 1 dB Compression (P1dB)	17	19		dBm
Saturated Output Power (Psat)		20		dBm
Output Third Order Intercept (OIP3)		31		dBm
Isolation S12		-50		dB
Supply Current (Idd) (Vcc=+15V)		200	250	mA

Weight	0.64ounces(Max.)	Impedance	50ohms
Input /Output Connectors	SMA-Female	Material	Aluminum
Finish	Gold Plated	Package Sealing	Hermetically Sealed

## Герметичный широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

### Absolute Maximum Ratings

Operating Voltage	+16V
RF Input Power (RFIN)	-25dBm

### Biasing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +15V biasing

### Power OFF Procedure

Step 1	Turn off +15V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

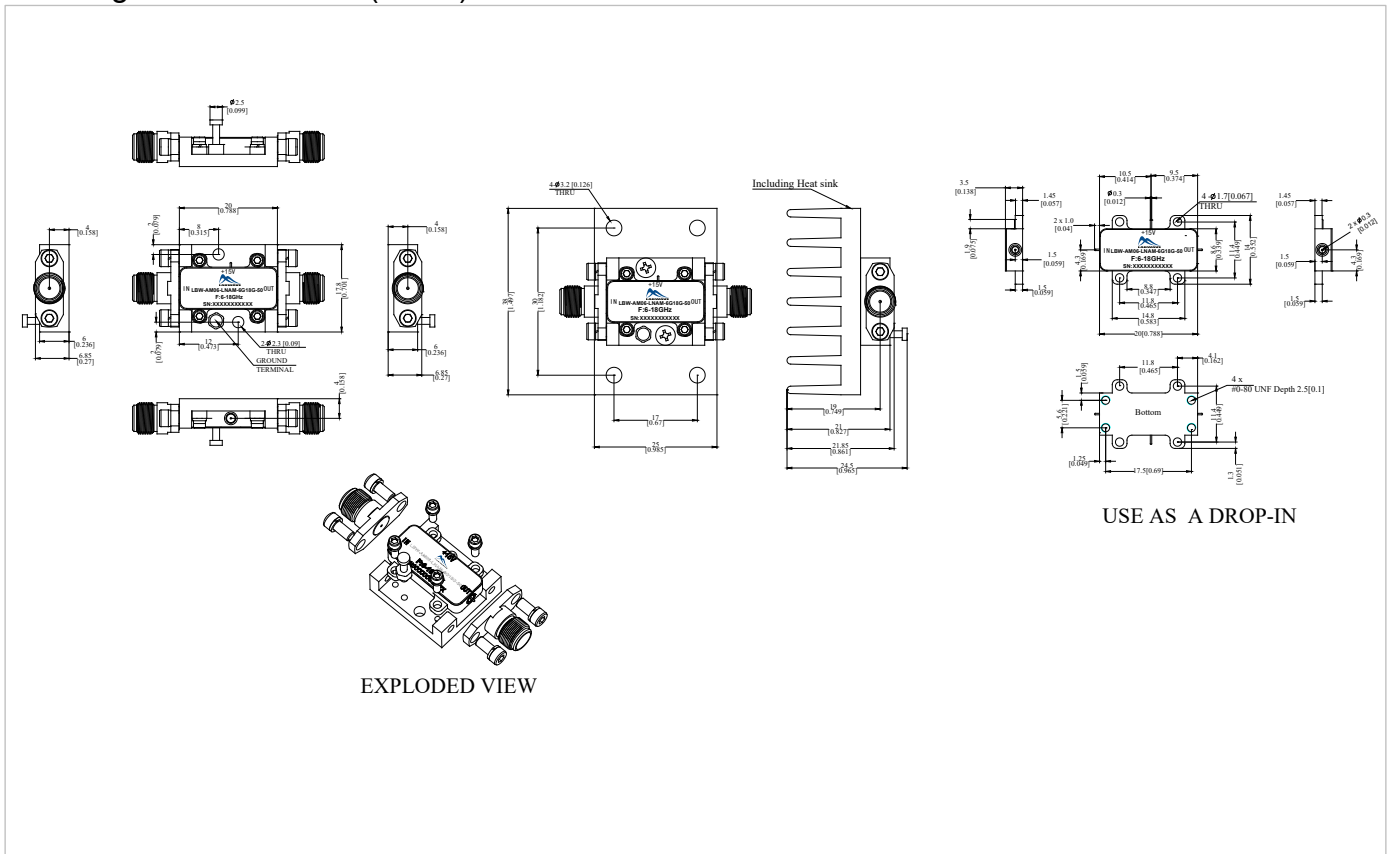
### Environmental Specifications

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:

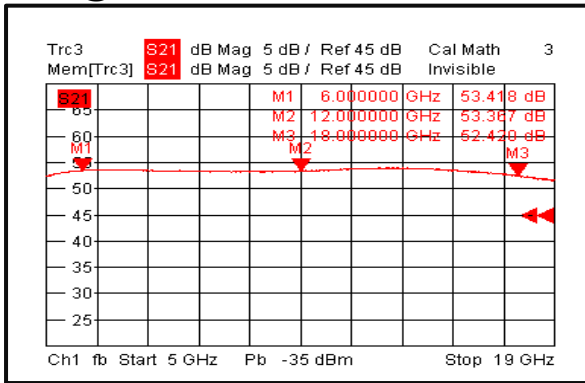
All Dimensions in mm (inches)  
Housing Tolerances  $\pm 0.1(0.004)$

Heat Sink required during operation(Sold Separately)

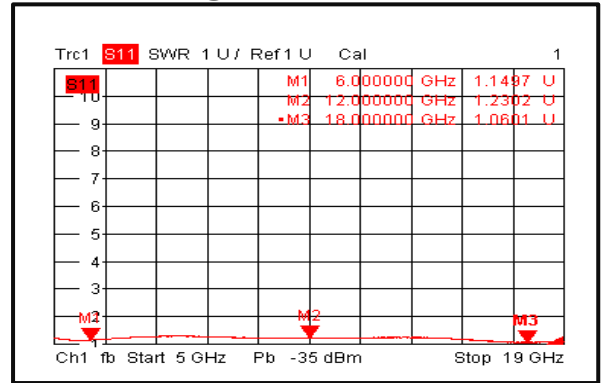


## Герметичный широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

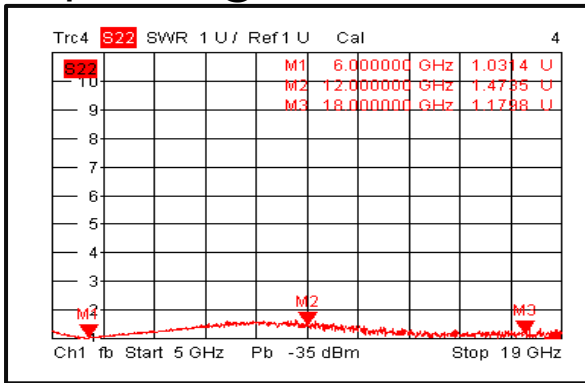
### Gain@+25°C



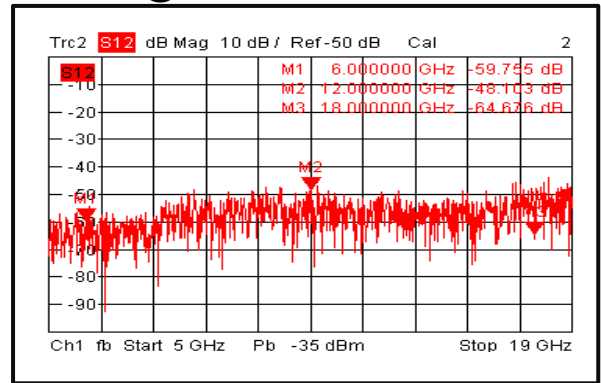
### Input VSWR@+25°C



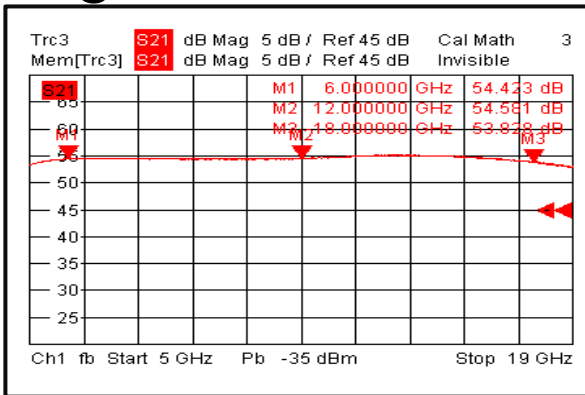
### Output VSWR@+25°C



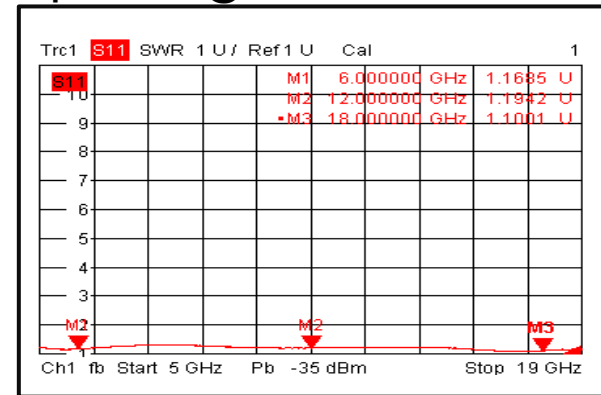
### Isolation@+25°C



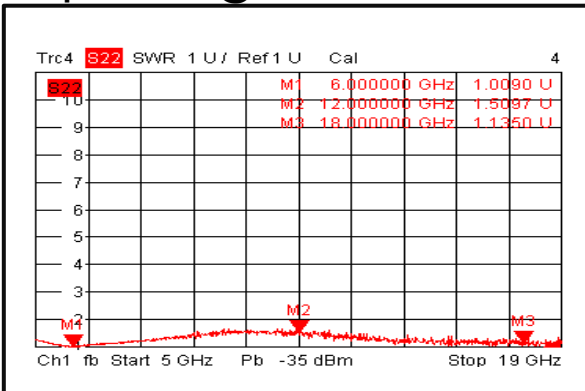
### Gain@-40°C



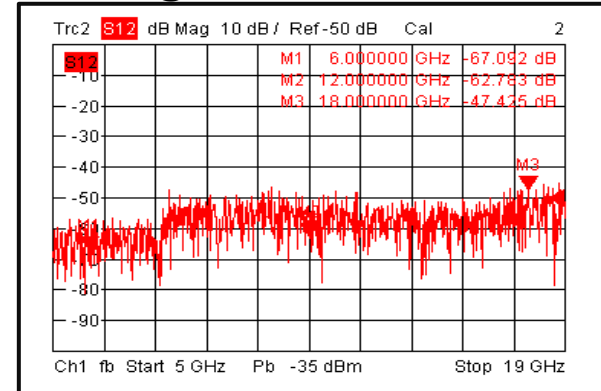
### Input VSWR@-40°C



### Output VSWR@-40°C

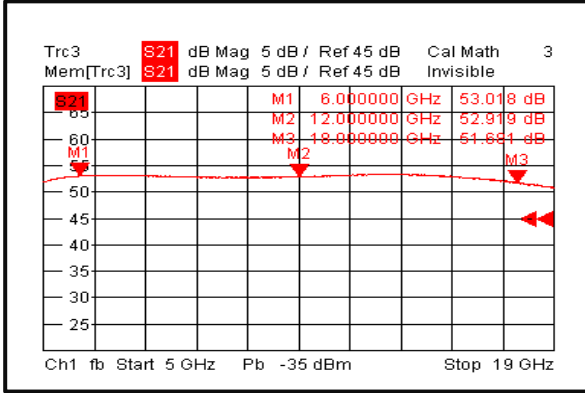


### Isolation@-40°C

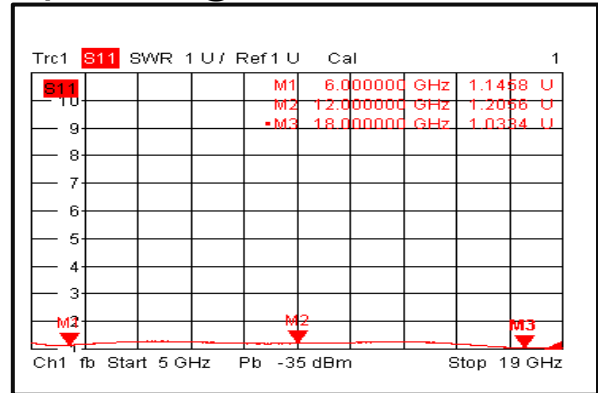


Герметичный широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

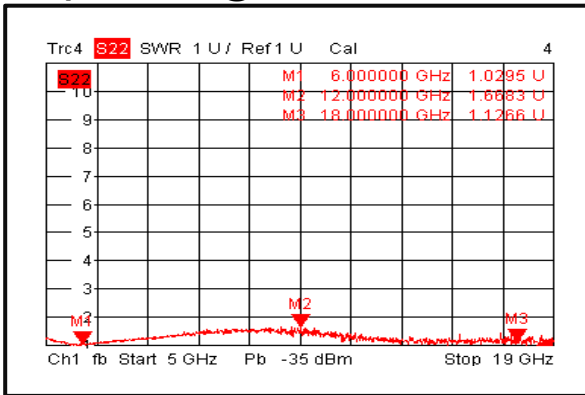
## Gain@+85°C



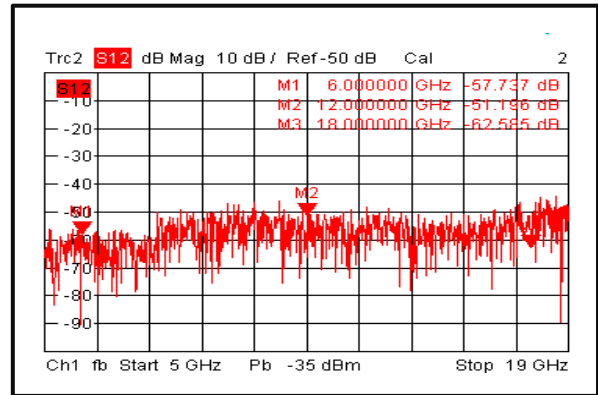
## Input VSWR@+85°C



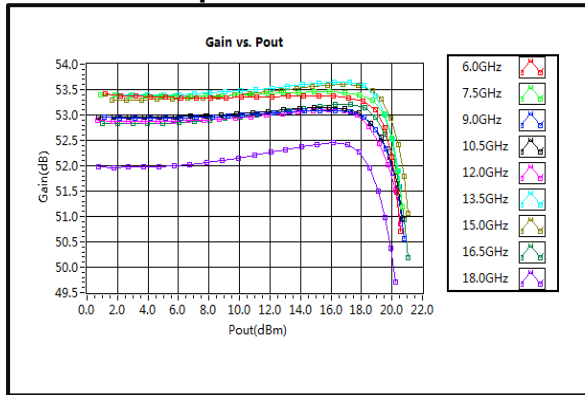
## Output VSWR@+85°C



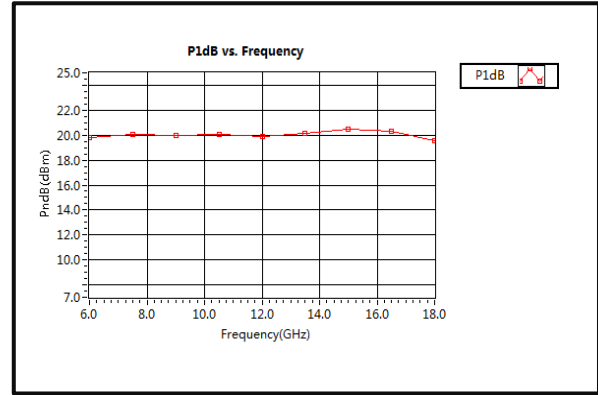
## Isolation@+85°C



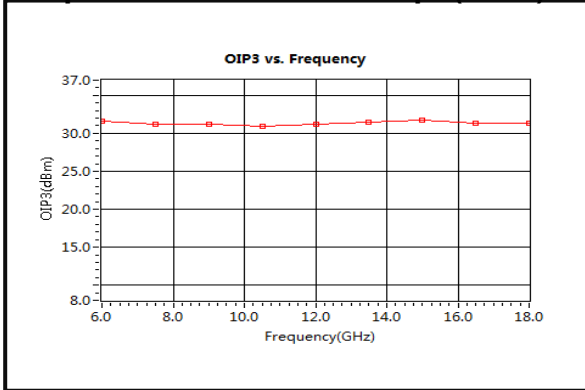
## Gain vs. Output Power



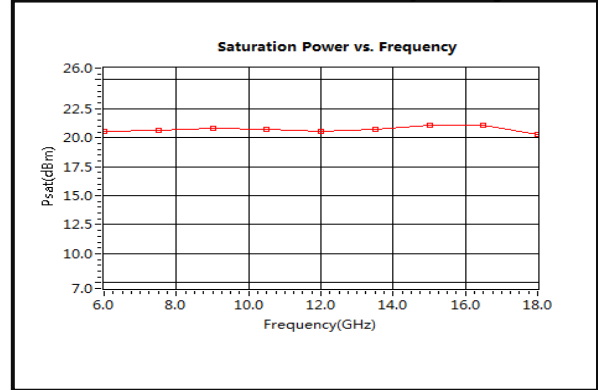
## P1dB vs. Frequency



## Output Third Order Intercept (OIP3)

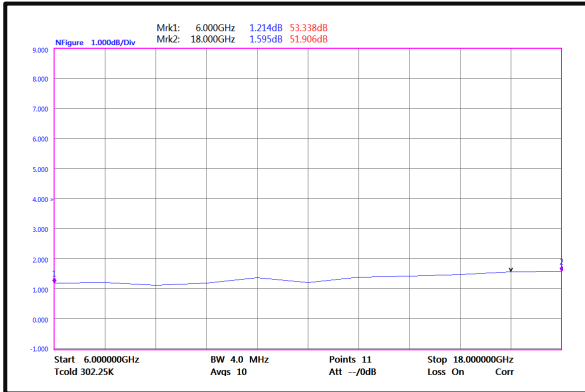


## Saturation Power vs. Frequency

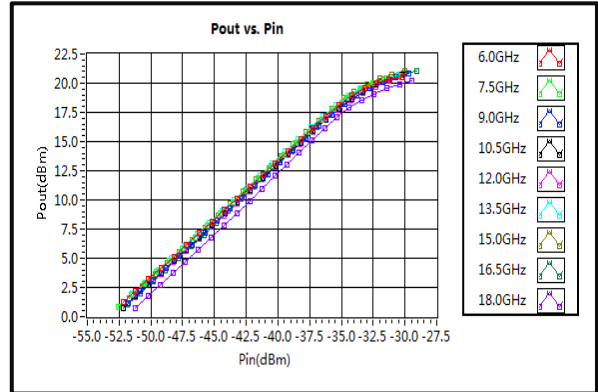


## Герметичный широкополосный малошумящий усилитель 6 ГГц — 18 ГГц

### Noise Figure



### Pout vs. Pin



### Current vs. Pout

