

### Характеристики:

- Коэффициент усиления: 20 дБ (тип.)
- Шум: 2,0 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +16 дБм (тип.)
- Напряжение питания: +4 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.
Frequency Range	5		7.5	7.5		10	GHz
Gain	18	20		18	20		dB
Gain Flatness		±0.7	±1.0		±0.6	±1.0	dB
Gain Variation Over Temperature (-40 ~ +85)		±0.5			±0.5		dB
Noise Figure		2.0	2.6		2.0	2.8	dB
Input VSWR		1.8	2.2		1.8	2.0	: 1
Output VSWR		1.6	2.0		1.6	2.0	: 1
Output 1dB Compression Point (P1dB)	14.5	16		14.5	16		dBm
Saturated Output Power (Psat)		18			18		dBm
Output Third Order Intercept (OIP3)		27			27		dBm
Supply Current (Vcc=+4V)		80	100		80	100	mA
Isolation S12		-32			-33		dB

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

## Широкополосный малошумящий усилитель 5 ГГц — 10 ГГц

### Absolute Maximum Ratings

Operating Voltage	+4.5V
RF Input Power (RFIN)	+10dBm

### Biassing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +4V biasing

### Power OFF Procedure

Step 1	Turn off +4V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

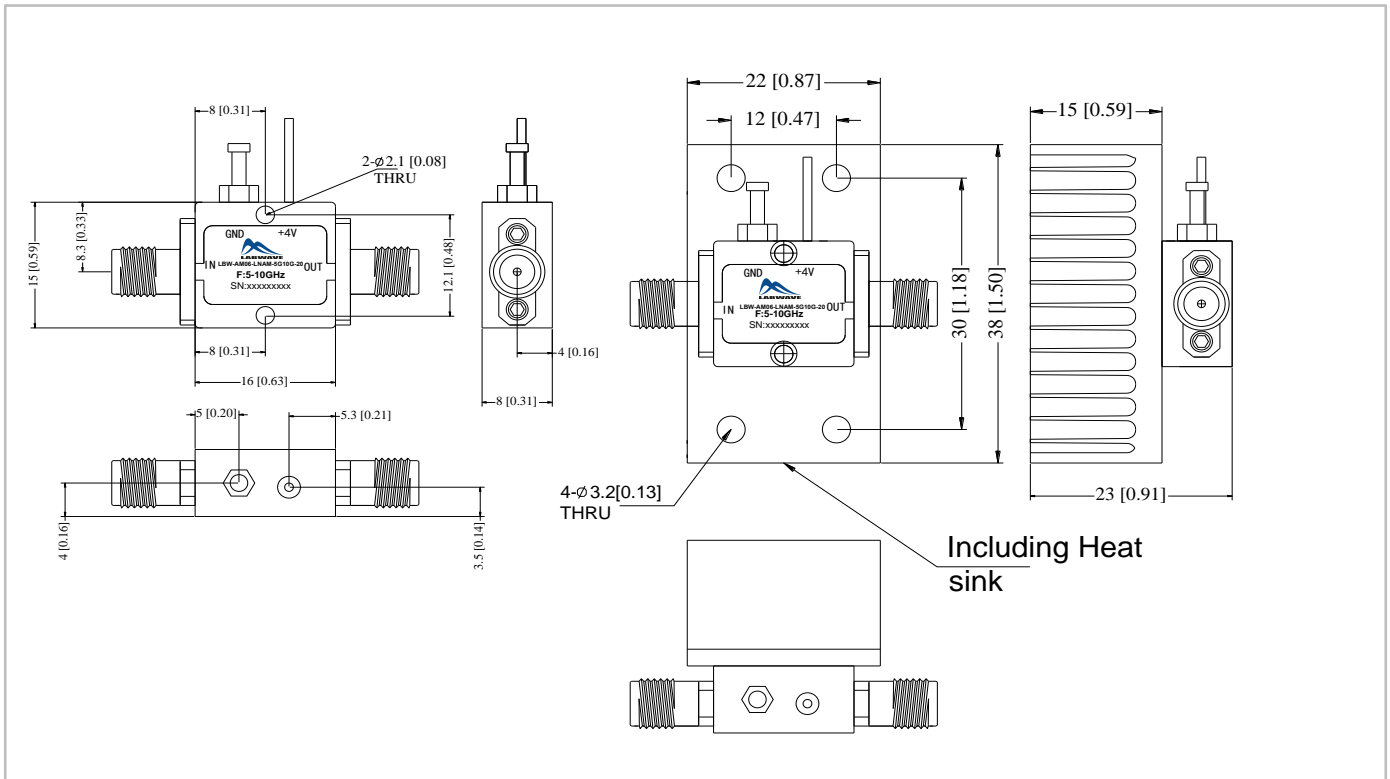
### Environmental Specifications

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:

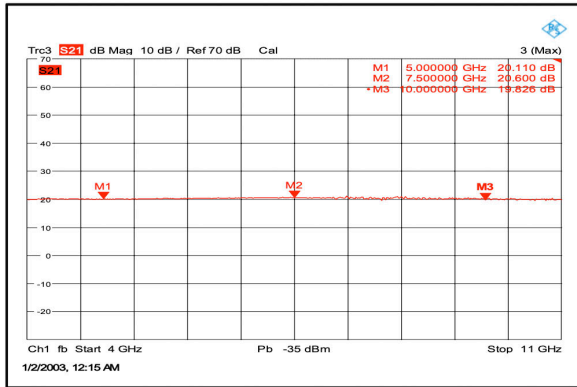
All Dimensions in mm (inches)

Heat Sink required during operation(Sold Separately)

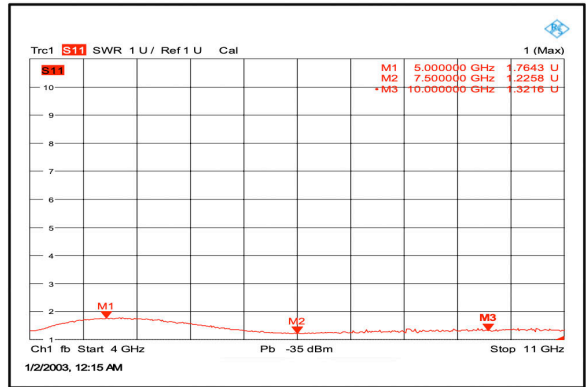


## Широкополосный малошумящий усилитель 5 ГГц — 10 ГГц

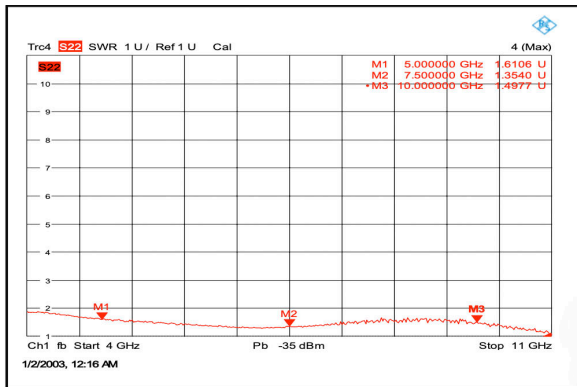
### Gain @+25°C



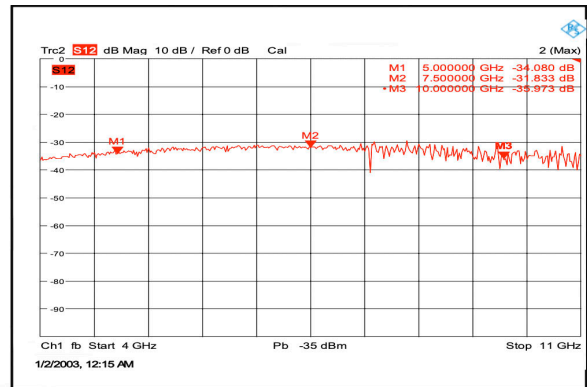
### Input VSWR @+25°C



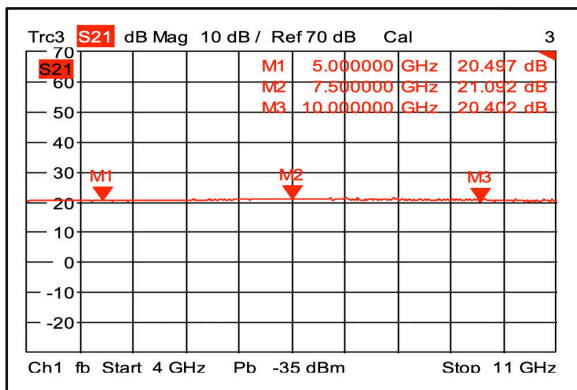
### Output VSWR @+25°C



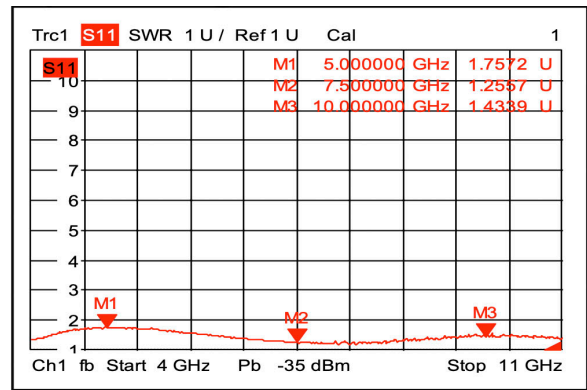
### Isolation @+25°C



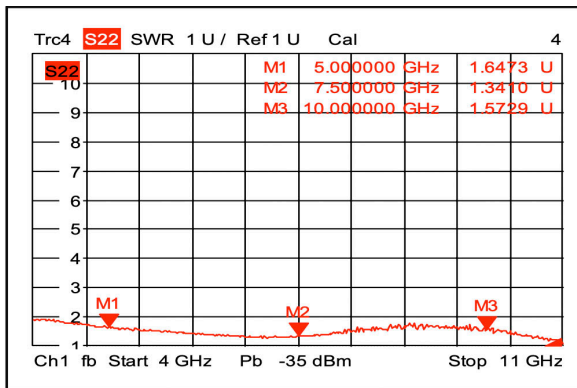
### Gain @-40°C



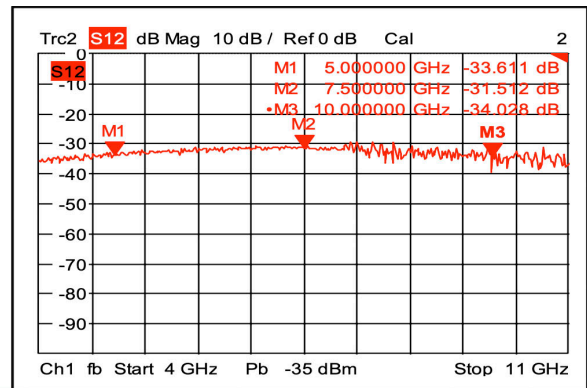
### Input VSWR @-40°C



### Output VSWR @-40°C

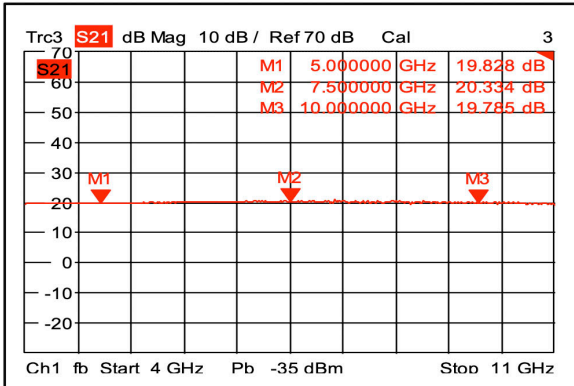


### Isolation @-40°C

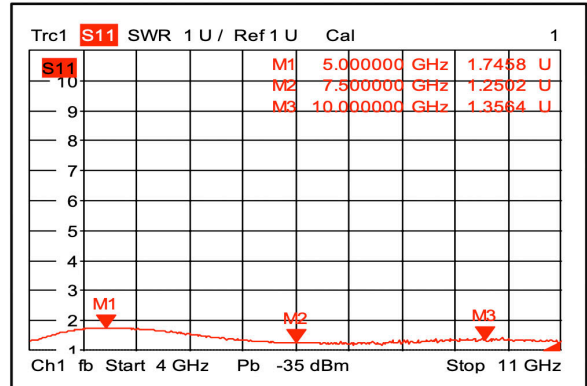


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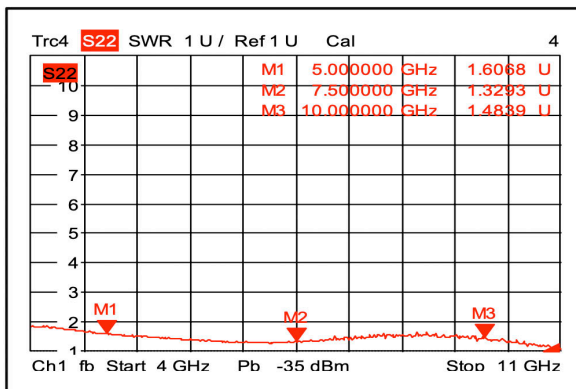
### Gain @+85°C



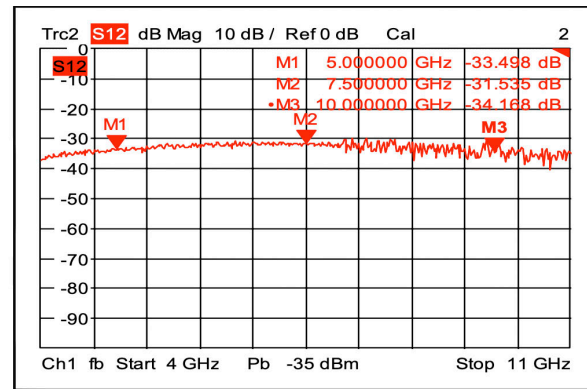
### Input VSWR @+85°C



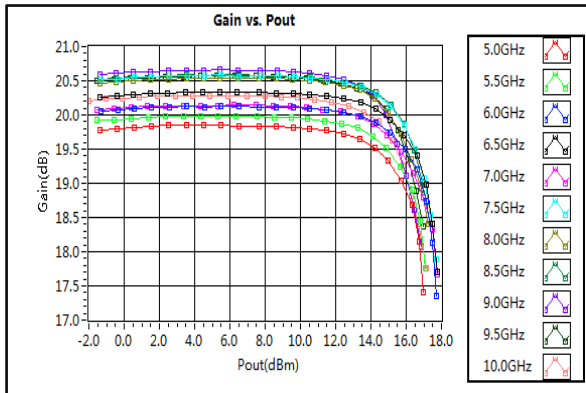
### Output VSWR @+85°C



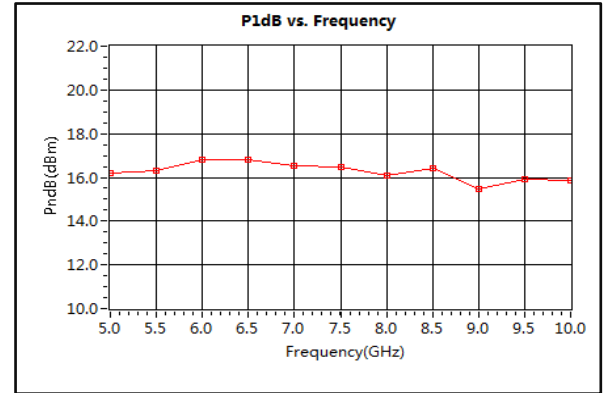
### Isolation @+85°C



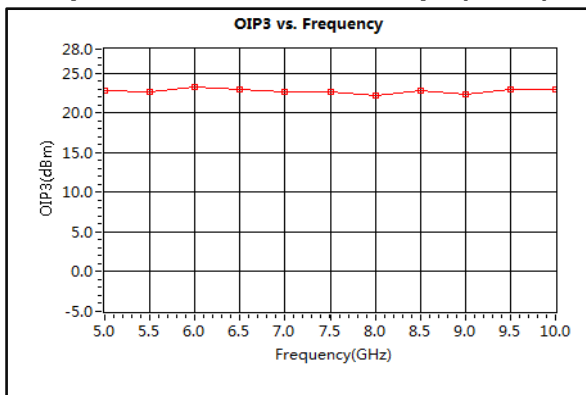
### Gain vs. Output Power



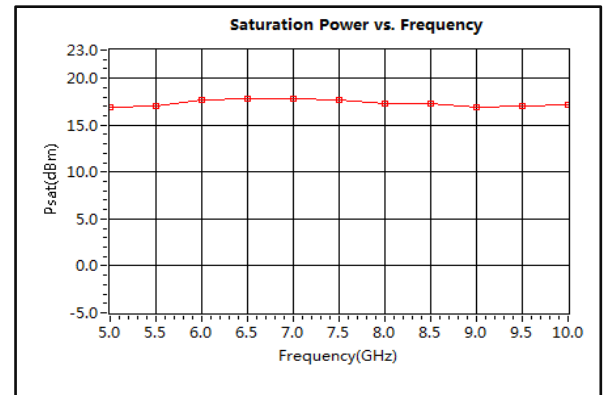
### P1dB vs. Frequency



### Output Third Order Intercept (OIP3)

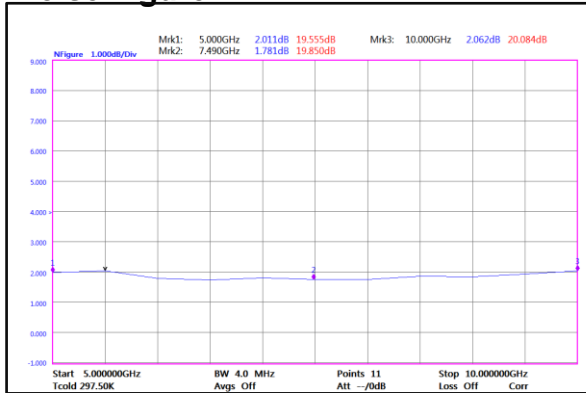


### Saturation Power vs. Frequency

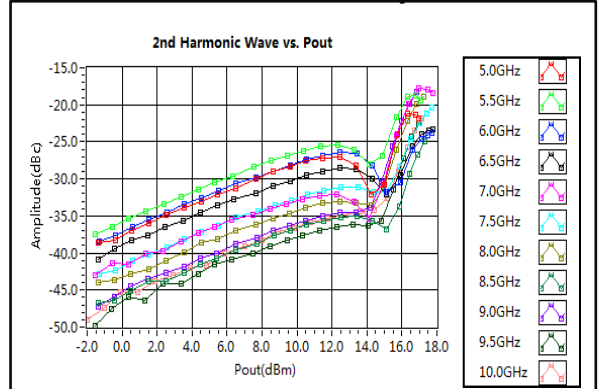


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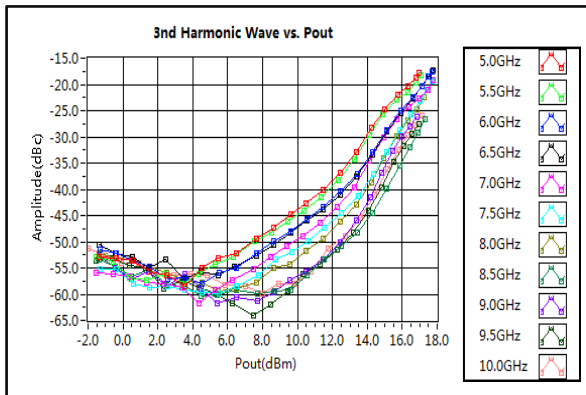
### Noise Figure



### 2nd Harmonic Wave Output Power



### 3rd Harmonic Wave Output Power



### 4th Harmonic Wave Output Power

