

Характеристики:

- Коэффициент усиления: 35 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: 30 дБм (мин.)
- Напряжение питания: +12 В при 450 мА
- 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.	Units
Frequency Range	0.02		6	GHz
Gain	33	35		dB
Gain Flatness		±2.0	±3.0	dB
Gain Variation Over Temperature (-40°C~+85°C)		±2.0		dB
Input VSWR		1.5		: 1
Output Power 1dB Compression Point (P1dB)	30	31		dBm
Saturated Output Power (Psat)		34		dBm
2 nd Harmonic @P1dB		-15		dBc
Supply Voltage	10	12	15	V
Supply Current (Vcc=+12V)		450	2000	mA
Power Added Efficiency		20		%
Isolation S12		-55		dB
Output Mismatch, all phase angles	VSWR = 6:1, No Device Damage			

Weight	11.5 Max. Ounces	Impedance	50 ohms
Input / Output Connectors	SMA-Female /N-Female	Material	Aluminum
Finish	Nickel Plated	Package Sealing	Epoxy Sealed (Standard)
			Hermetically Sealed (Optional)

Note: joint material (stainless steel plated beryllium copper outer conductor and inner conductor)

Широкополосный усилитель мощности 0,02 ГГц - 6 ГГц

Absolute Maximum Ratings

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

Biasing 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

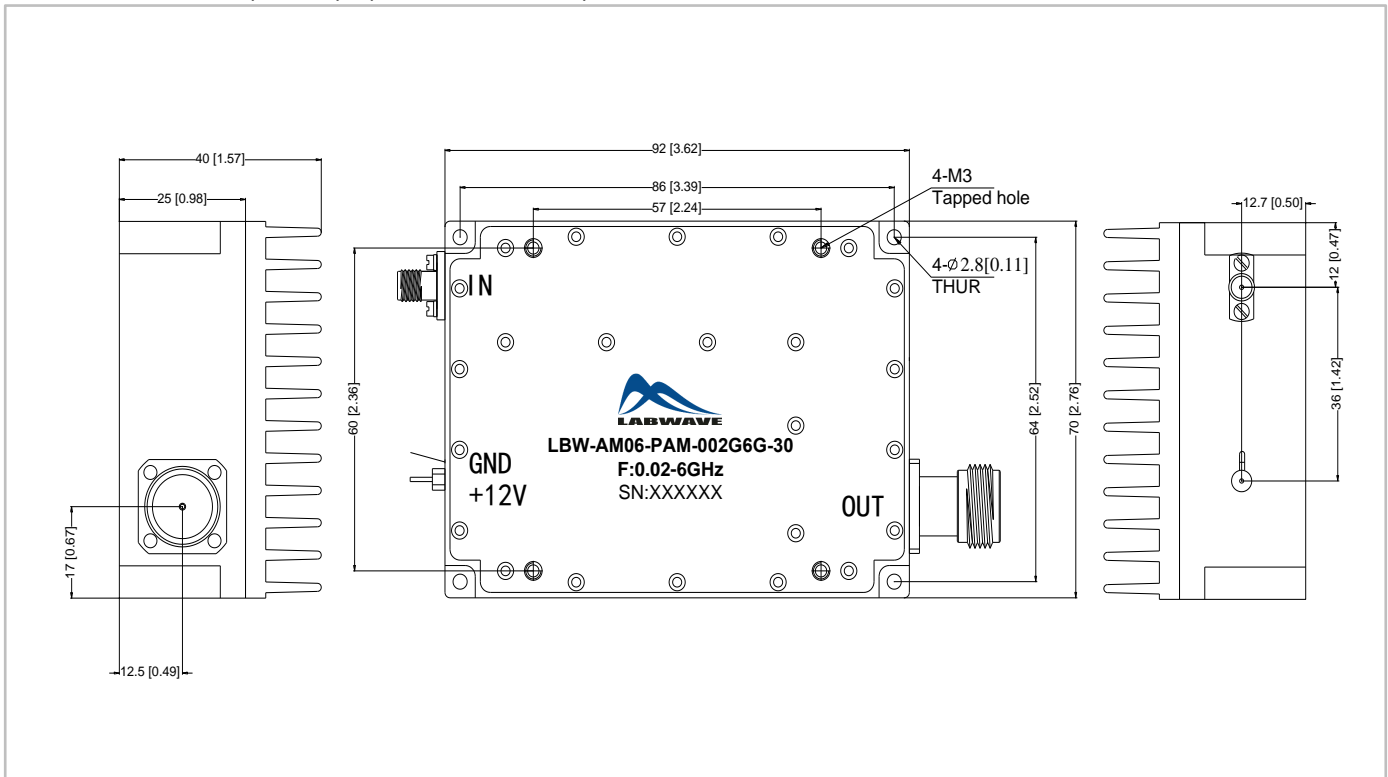
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

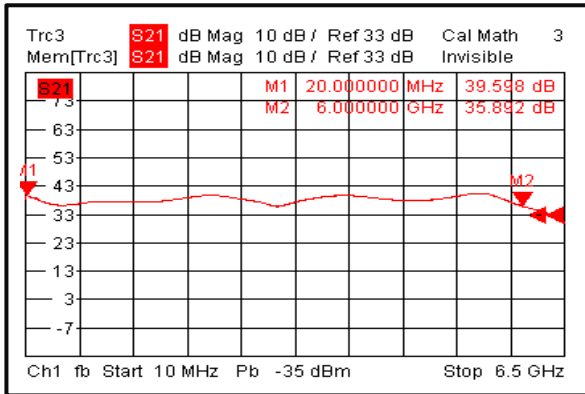
Tolerances ± 0.2 (0.008) (Excl Heat Sink)

Heat Sink required during operation(Sold Separately)

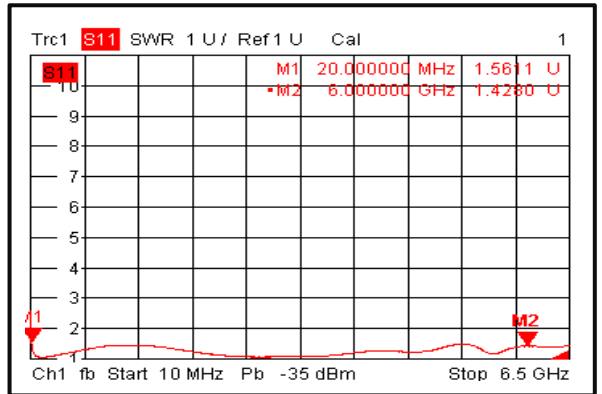


Широкополосный усилитель мощности 0,02 ГГц - 6 ГГц

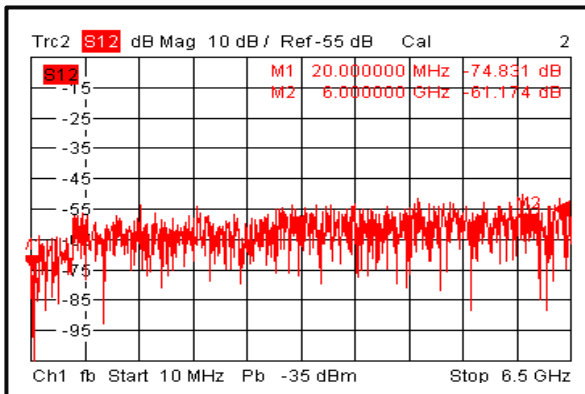
Gain@+25°C



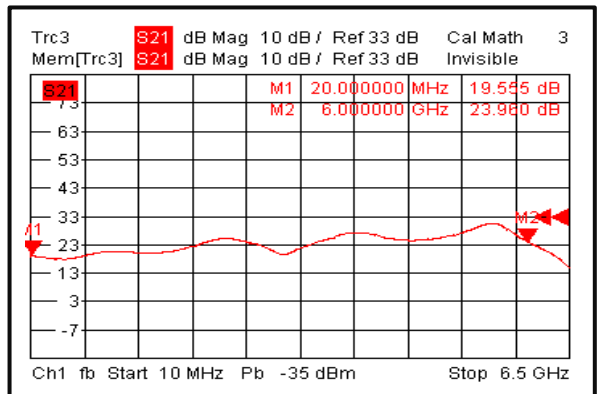
Input VSWR@+25°C



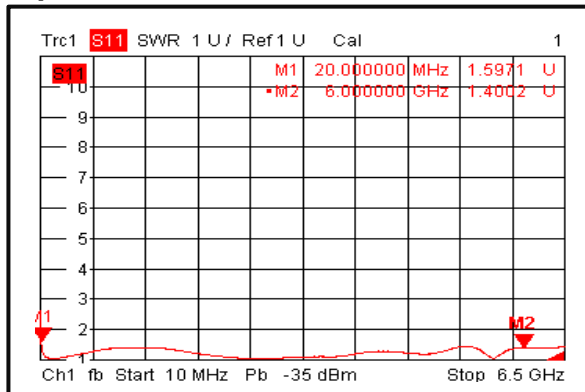
Isolation@+25°C



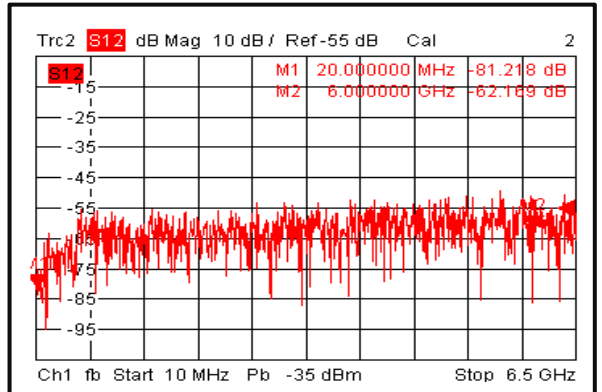
Gain@-40°C



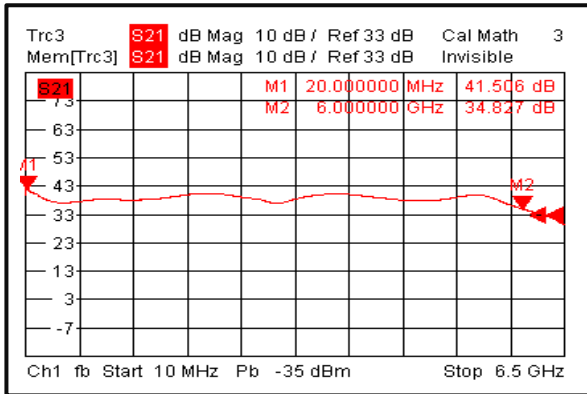
Input VSWR@-40°C



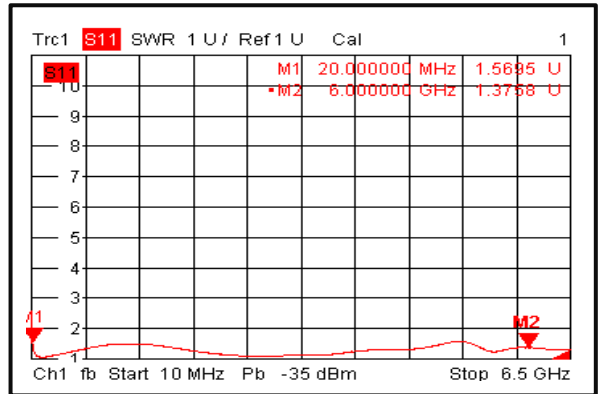
Isolation@-40°C



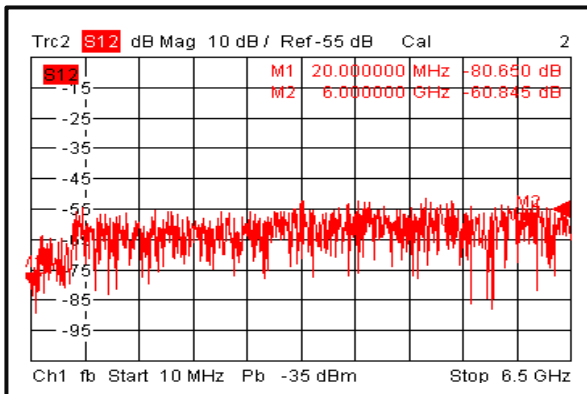
Gain@+85°C



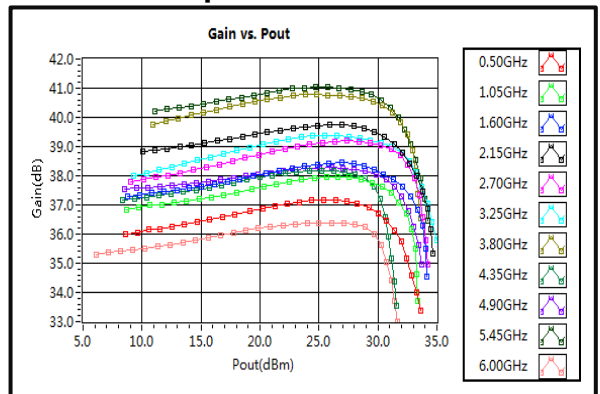
Input VSWR @+85°C



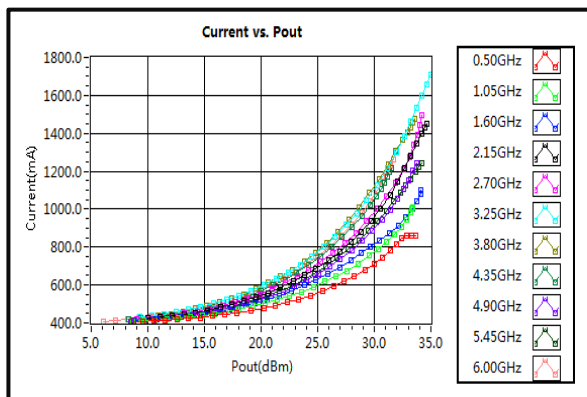
Isolation@+85°C



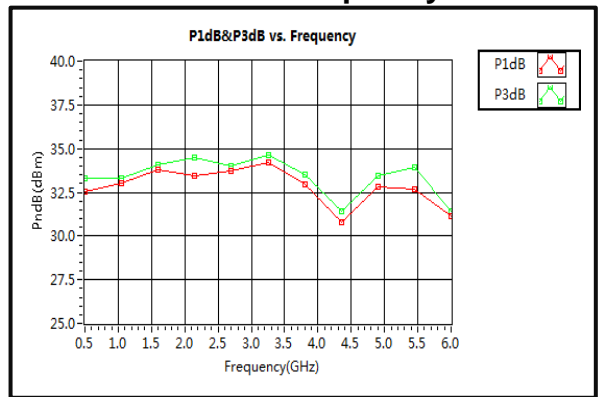
Gain vs. Output Power



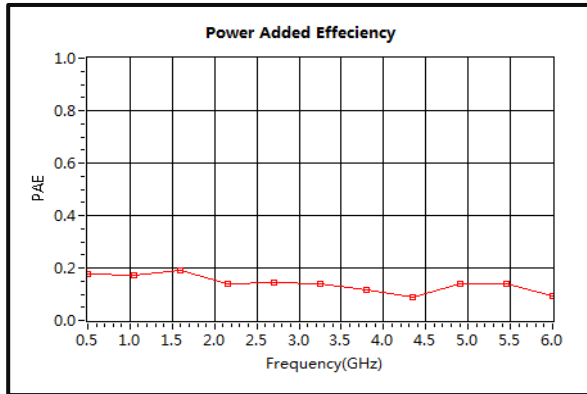
Current



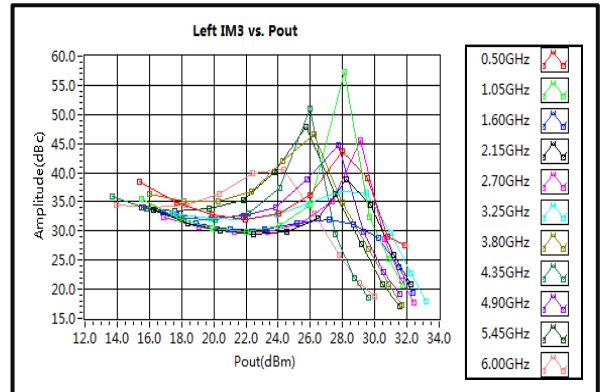
P1dB & P3dB vs. Frequency



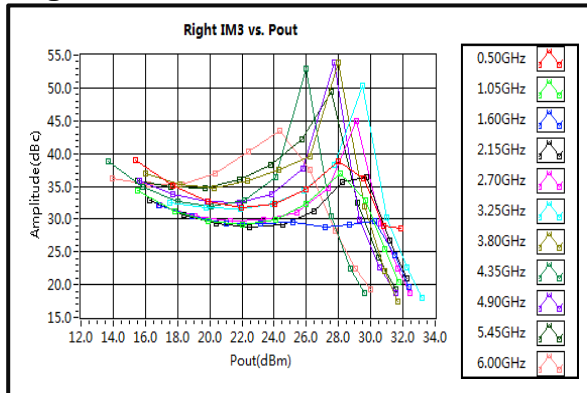
Power Added Efficiency



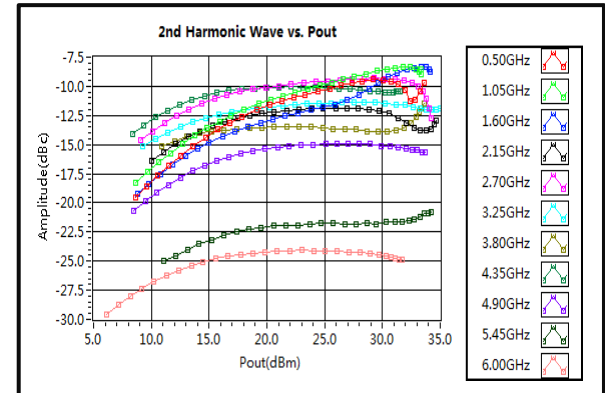
Left IM3 vs. Pout



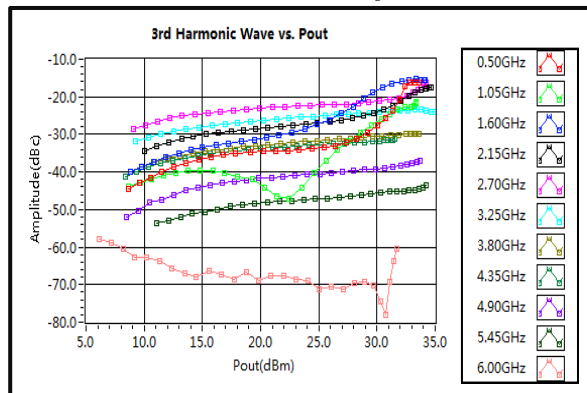
Right IM3 vs. Pout



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power

