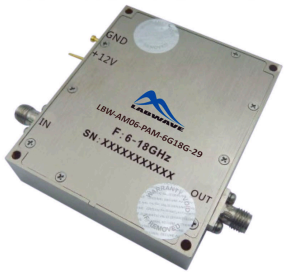
P/N:LBW-AM06-PAM-6G18G-29

Широкополосный усилитель мощности
1 Вт, 6 ГГц - 18 ГГц

Характеристики:



- Широкополосный усилитель мощности
- Коэффициент усиления: 35 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +30 дБм (тип.)
- Напряжение питания: +12 В
- Согласован на 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	30	37		30	37		dB
Gain Flatness		±1.5	±2.0		±1.5	±2.5	dB
Gain Variation Over Temperature (-40℃~+85℃)		±1.0			±1.5		dB
Noise Figure		1.5			1.6		:1
Input VSWR		2.0			1.8		:1
Output VSWR		3.5			4.5		dB
*Output 1dB Compression Point (P1dB)	30	32		29	31.5		dBm
*Saturated Output Power (Psat)		33			32.5		dBm
Supply Current (Vcc=+12V)		1.0	2.0		1.0	2.0	A
Efficiency at Psat (RF Output Power / DC Power Consumption)		15			15		%

Weight	Net	13Max. ounces	Impedance	50ohms
	Including Heat Sink	25Max. ounces		
Input / Output Connectors		SMA-Female	Material	copper
Finish		Nickel Plated	Package Sealing	Epoxy Sealed (Standard)
				Hermetically Sealed (Optional)

* P1dB, P3dB and Psat power testing signal: 200μs pulse width with 10% duty cycle.
* For average CW power testing, a 5dB back off from Psat is required unless water/oil cooling system is applied.

P/N:LBW-AM06-PAM-6G18G-29

Широкополосный усилитель мощности 1 Вт, 6 ГГц - 18 ГГц

Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power	+6dBm

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

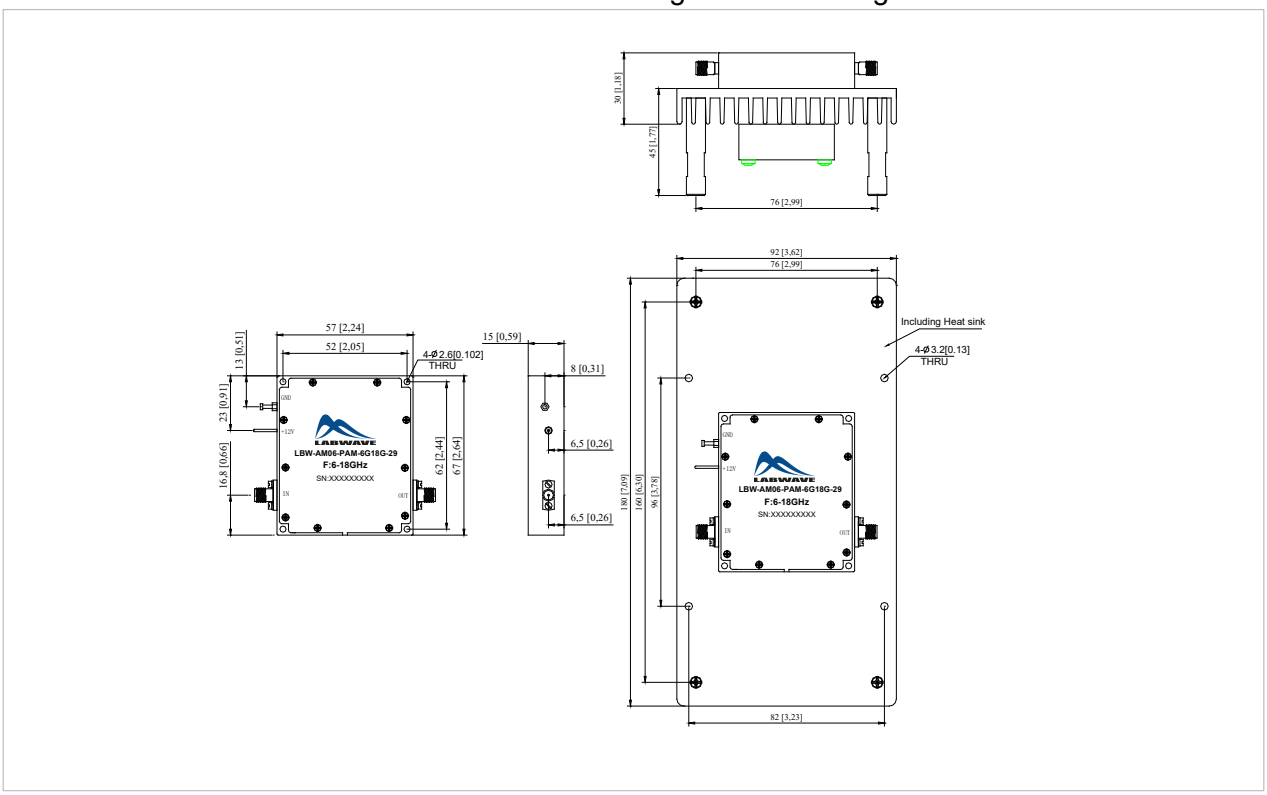
Environmental Specifications

Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
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 35ºc, 95%RH at 40ºc
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)
Housing Tolerances ±0.1(0.004)
(Excl Heat Sink).

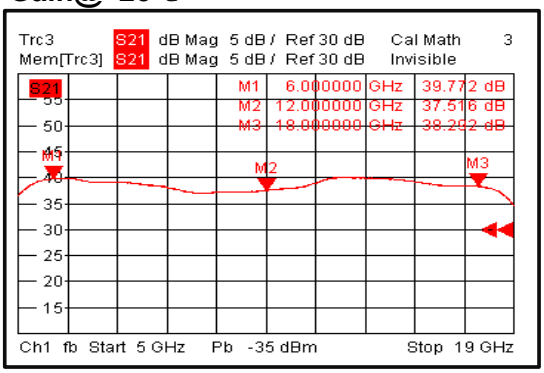
Heat Sink required during operation(Sold Separately)
Including outline drawing of heat sink with fan.



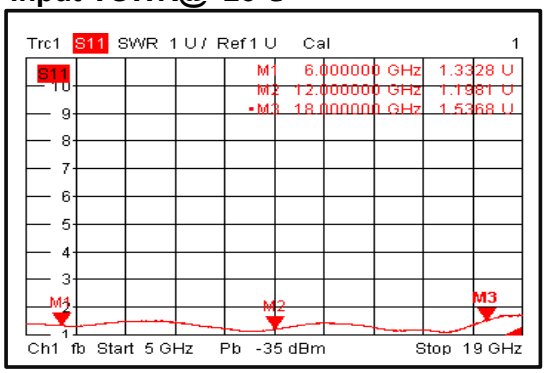
P/N:LBW-AM06-PAM-6G18G-29

Широкополосный усилитель мощности 1 Вт, 6 ГГц - 18 ГГц

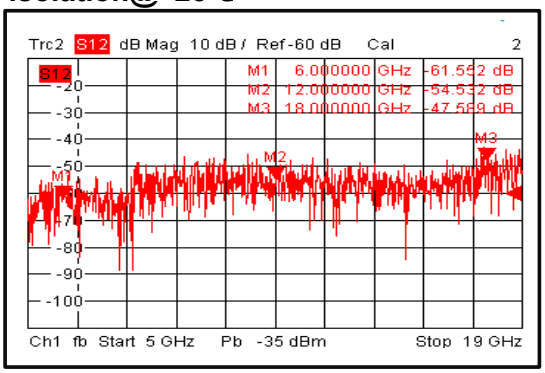
Gain@+25℃



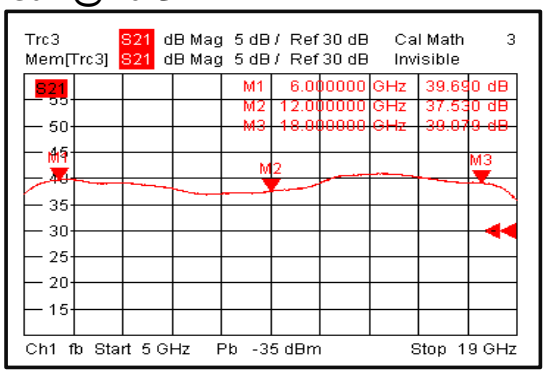
Input VSWR@+25℃



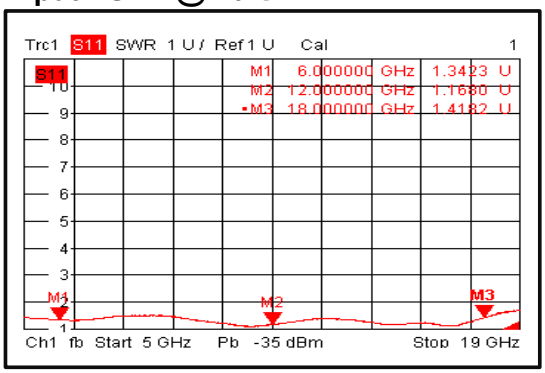
Isolation@+25℃



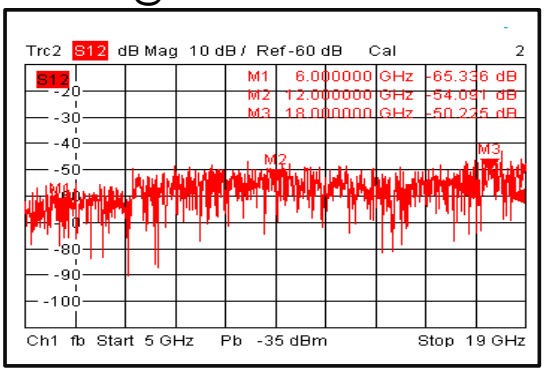
Gain@-40℃



Input VSWR@-40℃



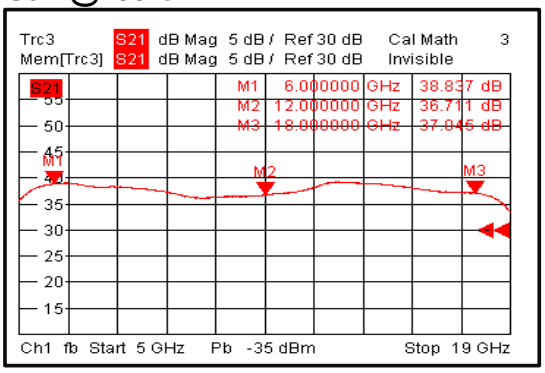
Isolation@-40℃



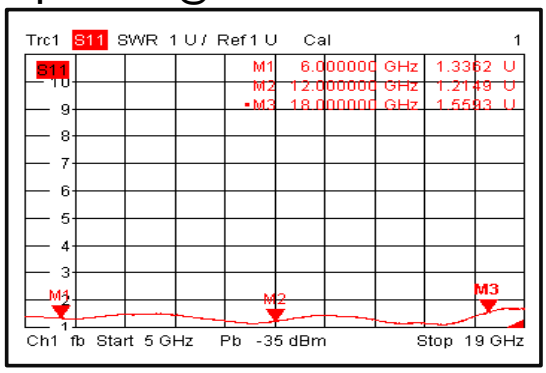
P/N:LBW-AM06-PAM-6G18G-29

Широкополосный усилитель мощности 1 Вт, 6 ГГц - 18 ГГц

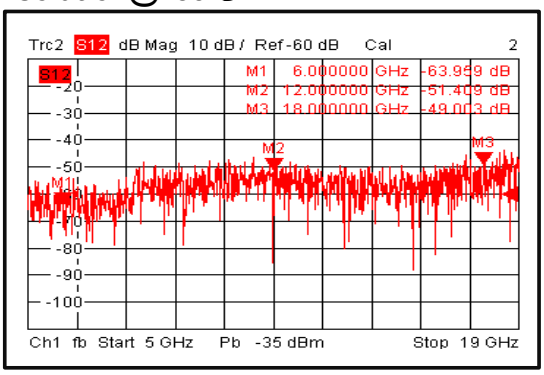
Gain@+85℃



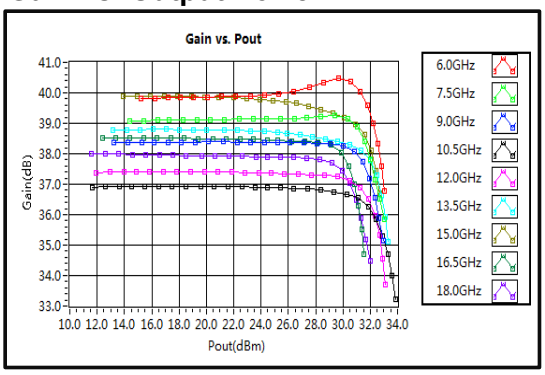
Input VSWR@+85℃



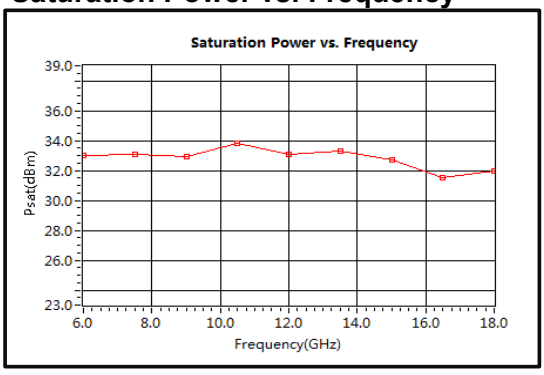
Isolation@+85℃



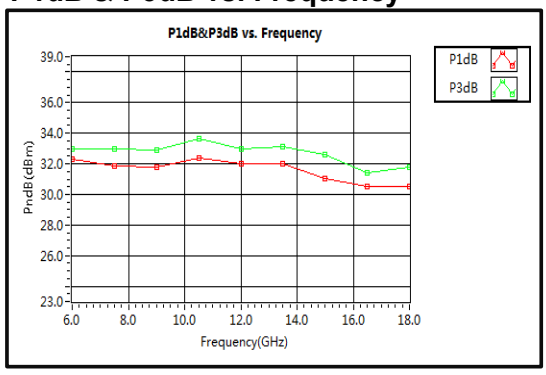
Gain vs. Output Power



Saturation Power vs. Frequency



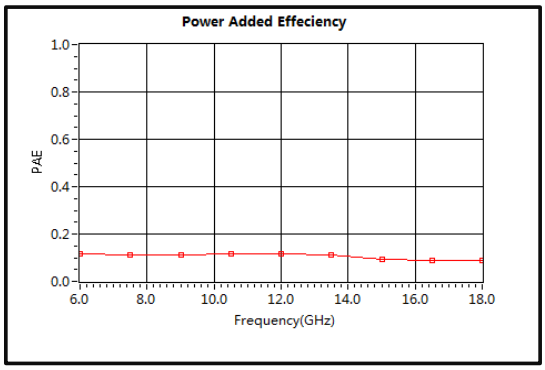
P1dB & P3dB vs. Frequency



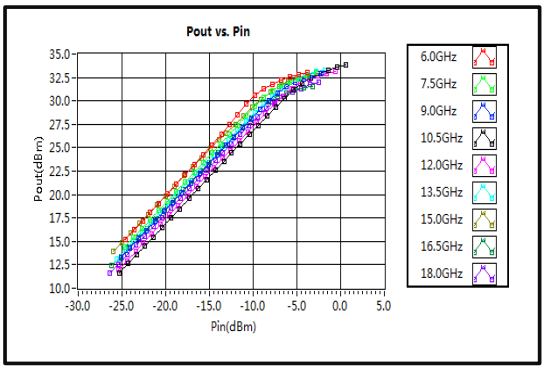
P/N:LBW-AM06-PAM-6G18G-29

Широкополосный усилитель мощности 1 Вт, 6 ГГц - 18 ГГц

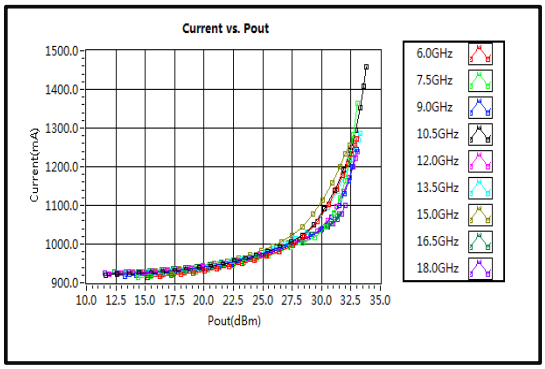
Power Added Efficiency



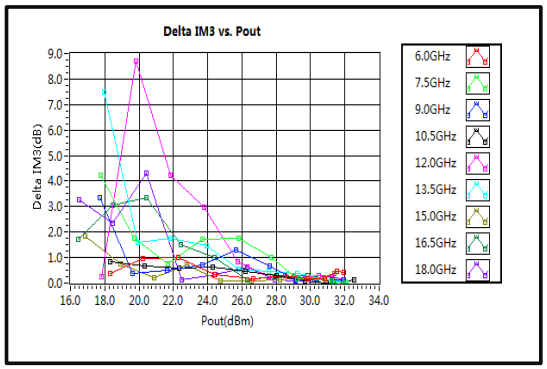
Pout vs. Pin



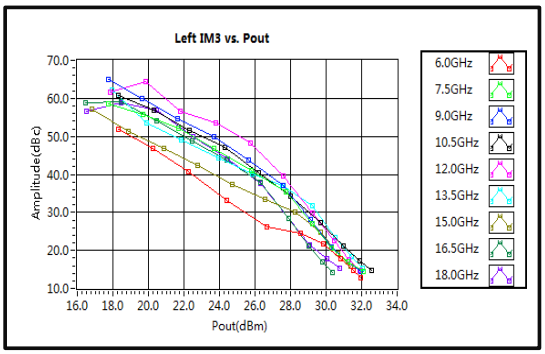
Current vs. Pout



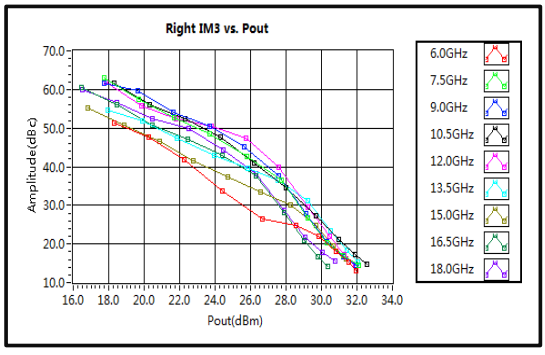
Delta IM3 vs. Pout



Left IM3 vs. Pout

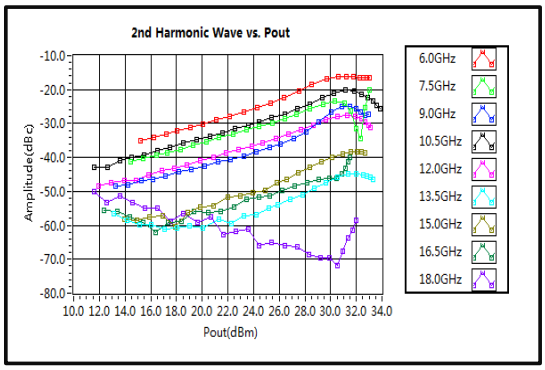


Right IM3 vs. Pout

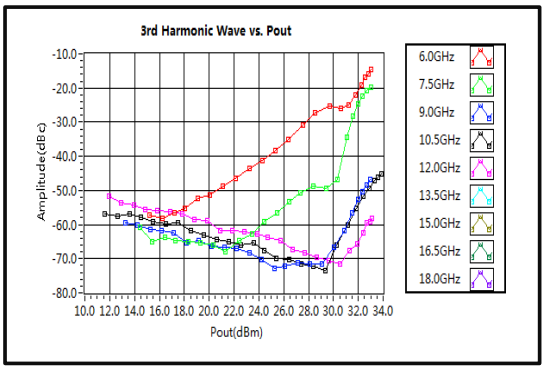


Широкополосный усилитель мощности 1 Вт, 6 ГГц - 18 ГГц

2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power