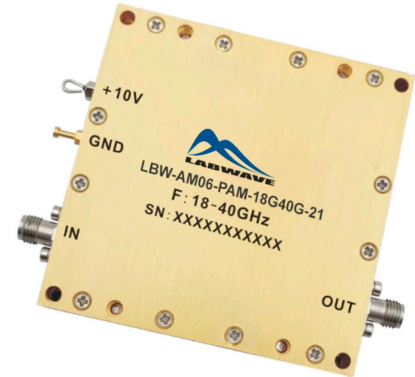


### Характеристики:

- Коэффициент усиления: 40 дБ (тип.)
- Выходная мощность: +27 дБм (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +25 дБм
- Напряжение питания: +10 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	18		26	26		40	GHz
Gain	35	40		32	38		dB
Gain Flatness		±3.0			±2.5		dB
Gain Variation Over Temperature (-40°C~+70°C)		±1.5			±1.5		dB
Noise Figure		5.0	6.0		5.5	7.5	dB
Input VSWR		2.0	2.5		2.3	3.0	: 1
Output 1dB Compression Point (P1dB)	22	25		21	25		dBm
Saturated Output Power (Psat)		27			27		dBm
IM3		20			20		dBc
Isolation S12		-55			-50		dB
Supply Current (Vcc=+10V)		900	1500		900	1500	mA

Weight	Net	10.24 Max. Ounces	Impedance	50ohms
	Including Heat sink	19.2 Max. Ounces		
Input / Output Connectors		2.92mm-Female	Material	Copper
Finish	Gold Plated	Package Sealing	Epoxy Sealed (Standard)	
			Hermetically Sealed (Optional)	

\* Peak-power test signal: 200µs pulse width with 10% duty cycle.

Широкополосный твердотельный усилитель мощности 18 ГГц — 40 ГГц

## Absolute Maximum Ratings

Operating Voltage	+12V
RF Input Power	+14dBm

## Biassing Up Procedure

Step 1	Connect Ground Pin
Step 2	Connect input and output
Step 3	Connect +10V biasing

## Power OFF Procedure

Step 1	Turn off +10V biasing
Step 2	Remove RF connection
Step 3	Remove Ground

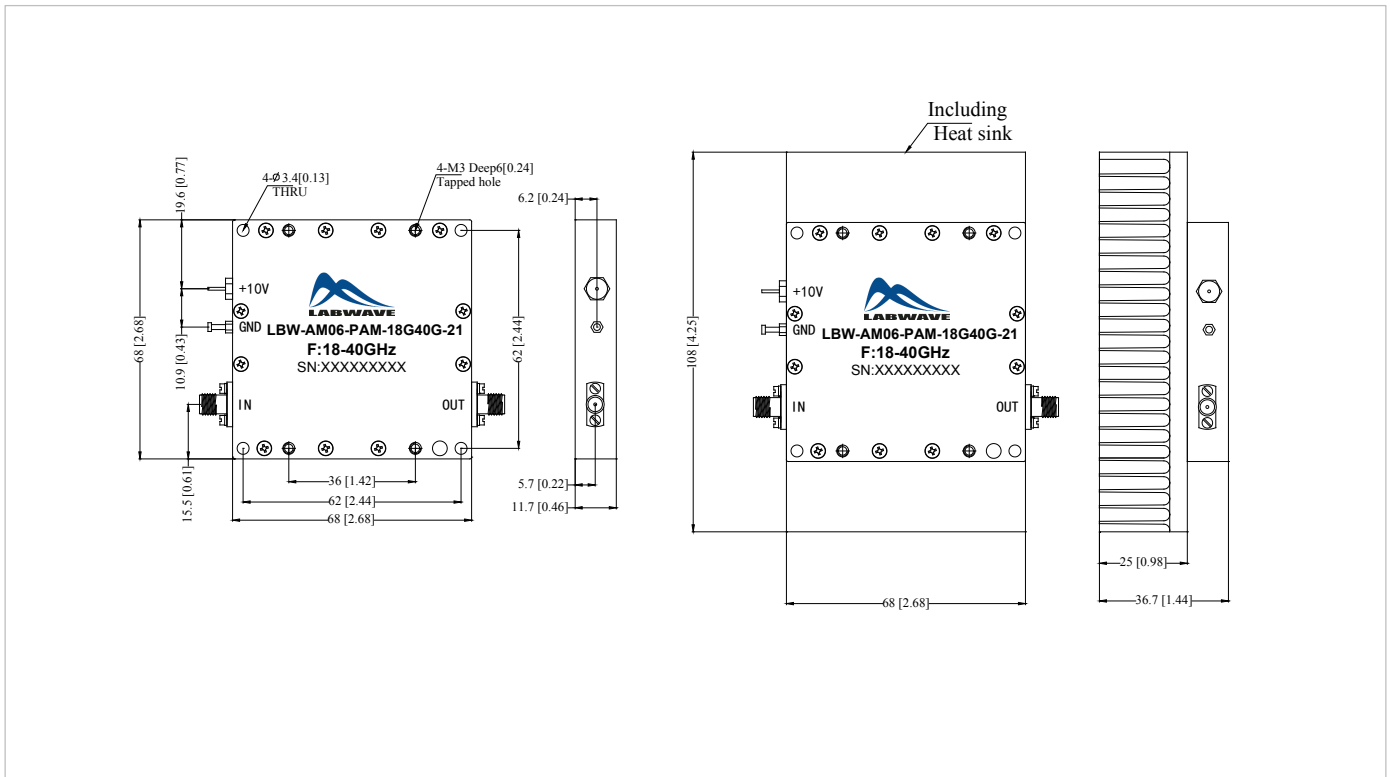
## Environmental Specifications

Operational Temperature	-40°C~+70°C (Case Temperature)
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 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

## Outline Drawing:

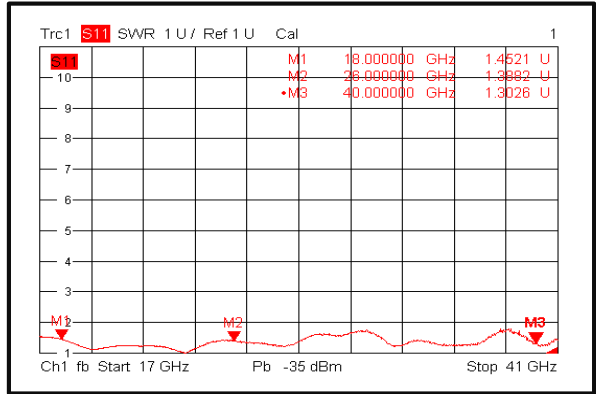
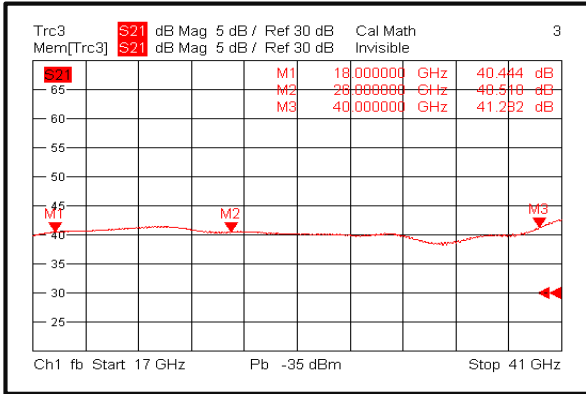
All Dimensions in mm (inches)  
Housing Tolerances  $\pm 0.2$  (0.008)  
(Excl Heat Sink)

Heat Sink required during operation(Sold Separately)

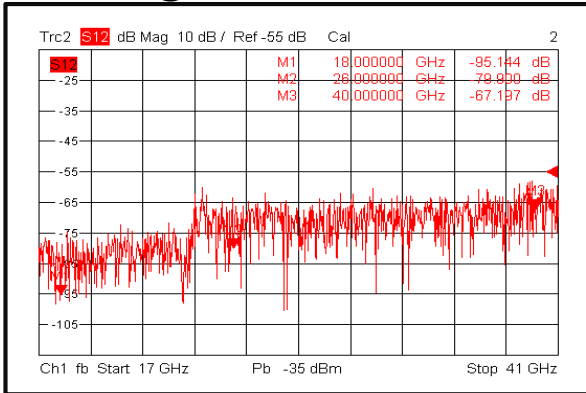


## Широкополосный твердотельный усилитель мощности 18 ГГц — 40 ГГц

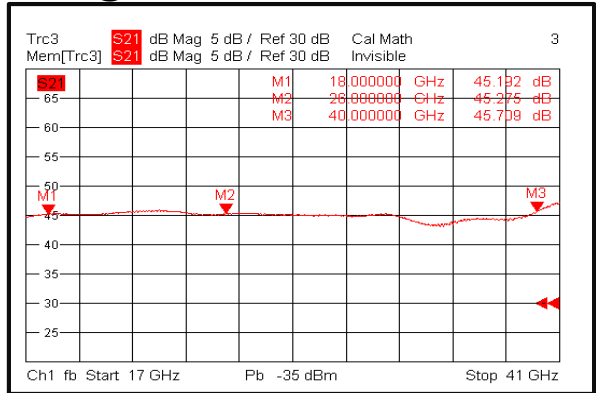
### Gain @ +25°C



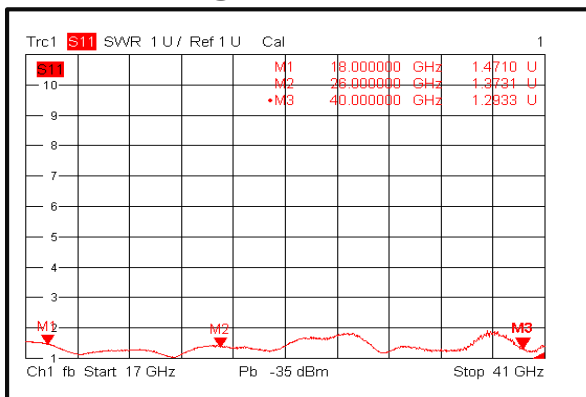
### Isolation @ +25°C



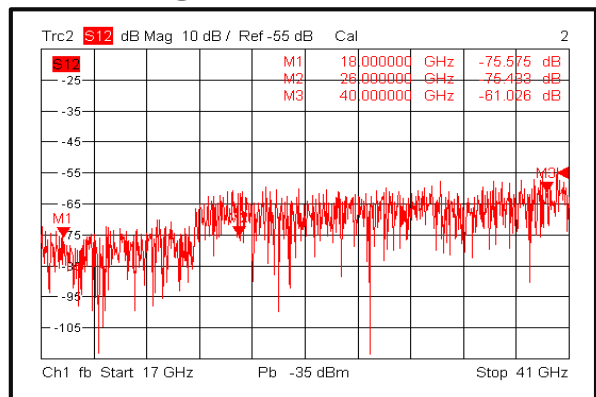
### Gain @ -40°C



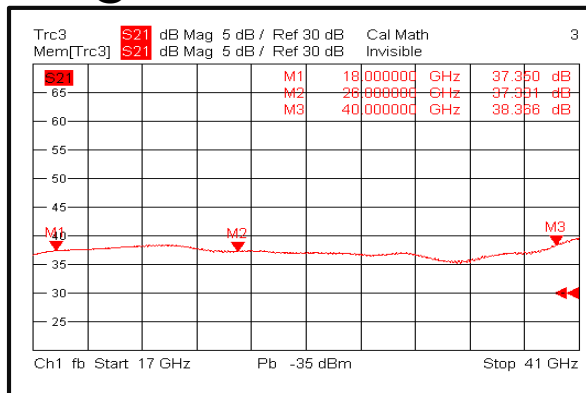
### Input VSWR @ -40°C



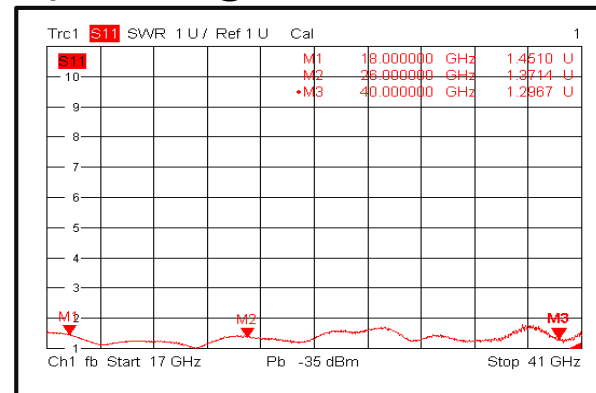
### Isolation @ -40°C



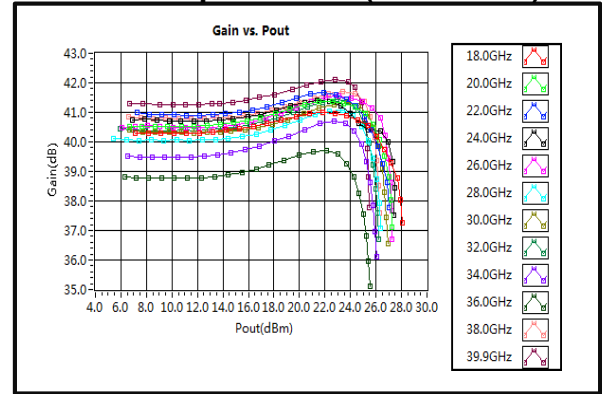
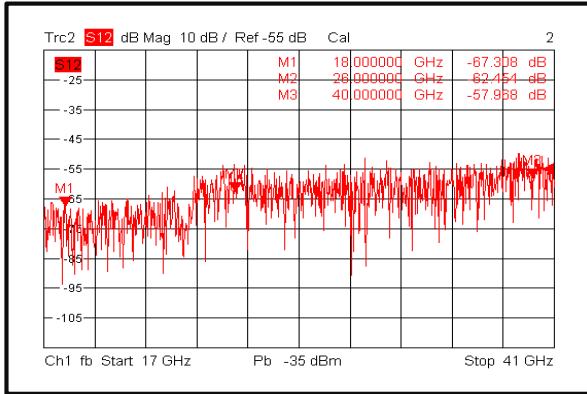
### Gain @ +70°C



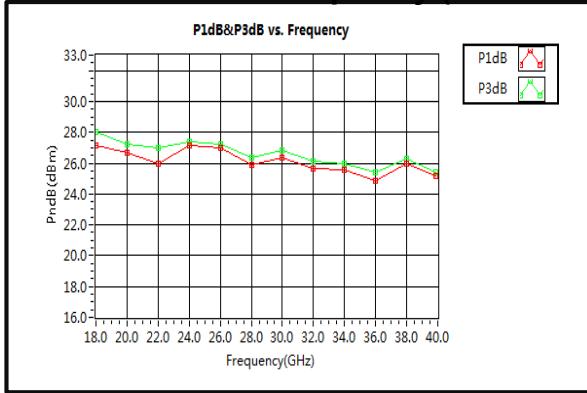
### Input VSWR @ +70°C



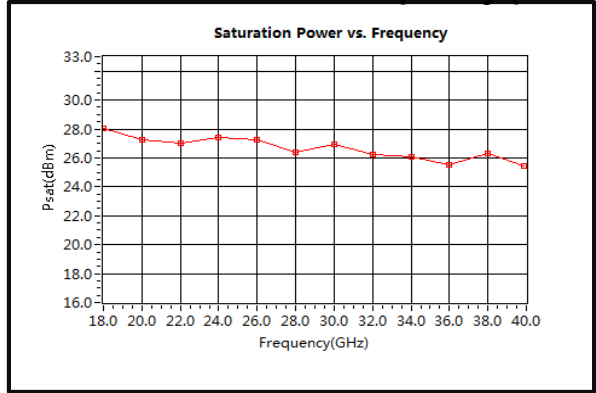
## Широкополосный твердотельный усилитель мощности 18 ГГц — 40 ГГц Isolation@+70°C



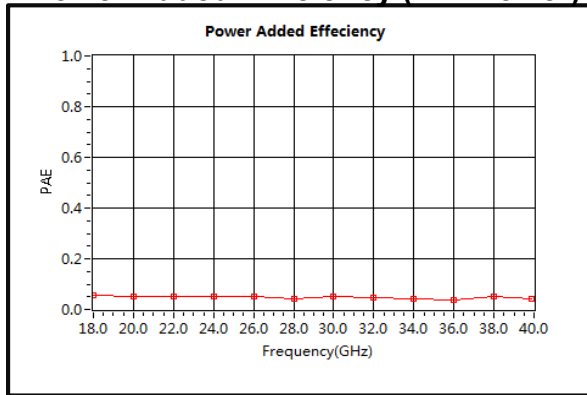
### P1dB & P3dB vs. Frequency (CW Power)



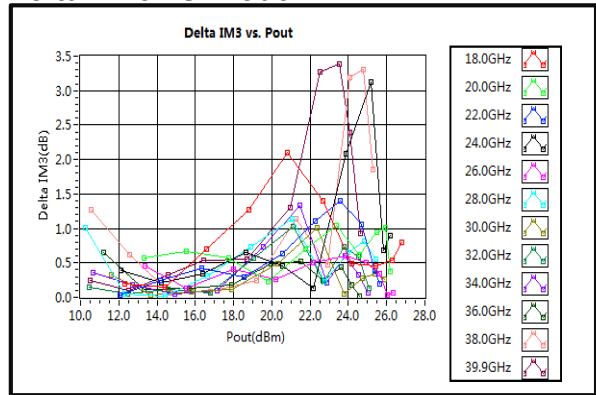
### Saturation Power vs. Frequency (CW Power)



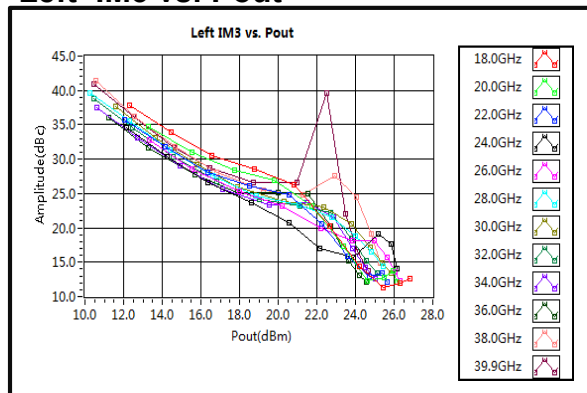
### Power Added Efficiency (CW Power)



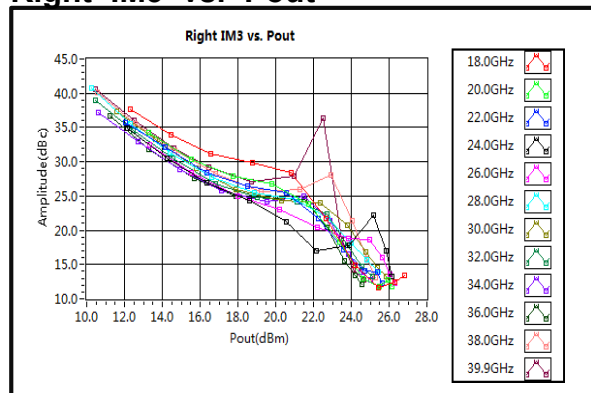
### Delta IM3 vs. Pout



### Left IM3 vs. Pout

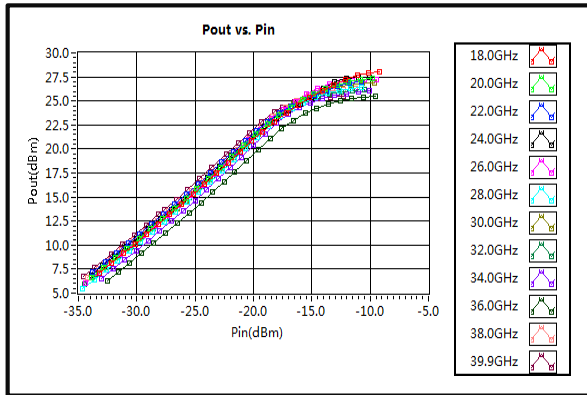


### Right IM3 vs. Pout

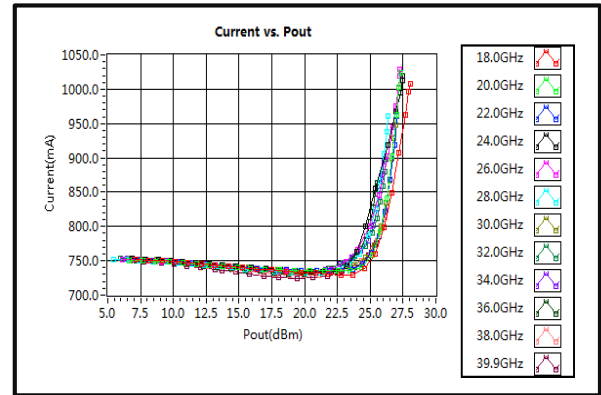


## Широкополосный твердотельный усилитель мощности 18 ГГц — 40 ГГц

**Pout vs. Pin (CW Power)**



**Current vs. Pout (CW Power)**



**2nd Harmonic Wave Output Power**

