

Характеристики:

- Коэффициент усиления: 43 дБ (тип.)
- Шум: 1,8 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +30 дБм (тип.)
- Напряжение питания: +12 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	2.5		3.5	GHz
Gain	40	43		dB
Gain Flatness		±1		dB
Gain Variation Over Temperature (-40°C~+85°C)		±1.5		dB
Noise Figure		1.8	2.5	dB
Input Return Loss		10		dB
Output Return Loss		9		dB
Output 1dB Compression Point (P1dB)	30	31		dBm
Saturated Output Power (Psat)		32		dBm
Output Third Order Intercept (OIP3)		40		dBm
Isolation S12		-65		dB
Supply Current (Vcc=+12V)		500	800	mA

Weight	Net	2.4 Max. ounces	Impedance	50ohms
	Including Heat Sink	5 Max. ounces		
Input / Output Connectors	SMA-Female	Material	Aluminum	
Finish	Nickel Plated	Package Sealing	Epoxy Sealed	

Усилитель-драйвер средней мощности 2,5 ГГц — 3,5 ГГц

Absolute Maximum Ratings

Operating Voltage	+15V
RF Input Power	+5dBm

Biassing 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.

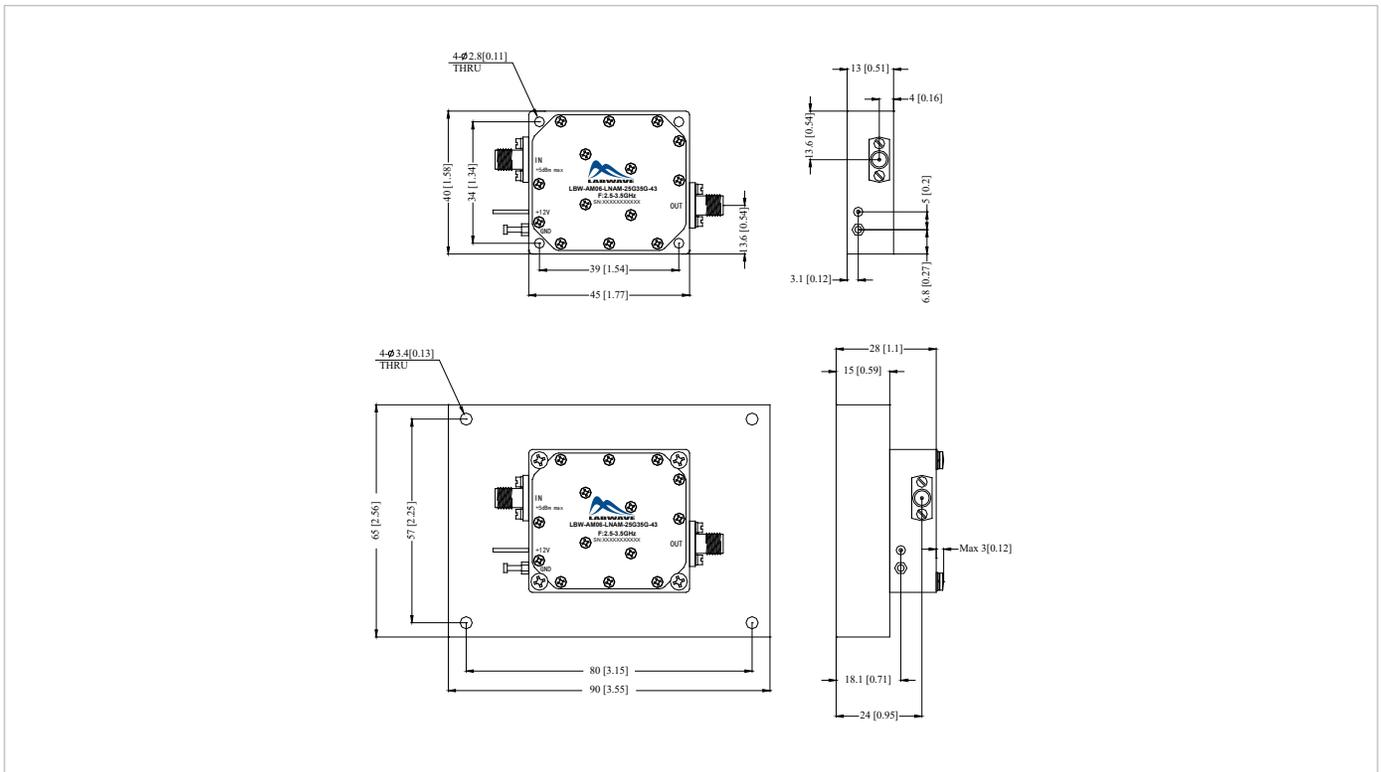
Environmental Specifications

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

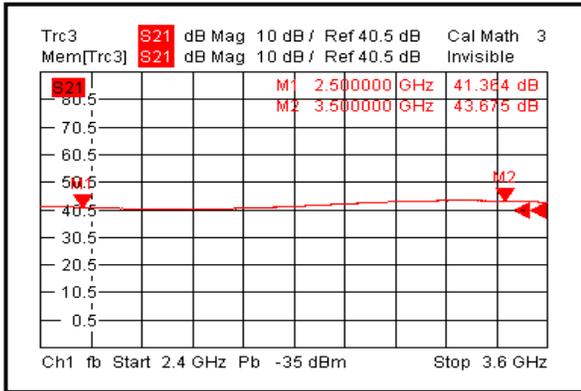
Outline Drawing:

All Dimensions in mm (inches)
Housing Tolerances $\pm 0.1(0.004)$
(Excl Heat Sink).

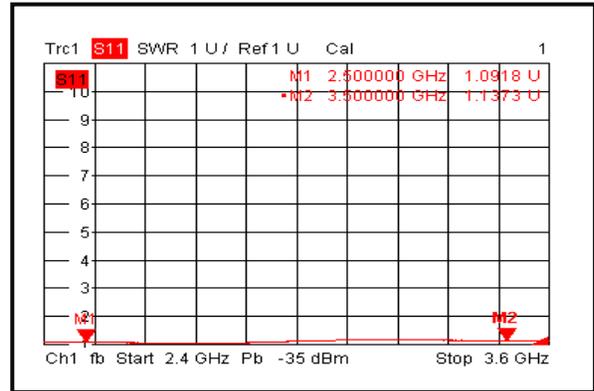
Heat Sink required during operation(Sold Separately)



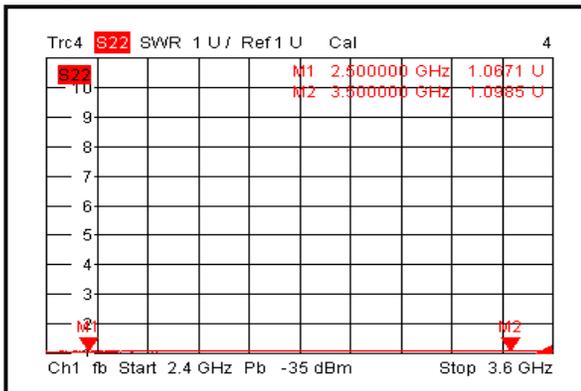
Gain @+25°C



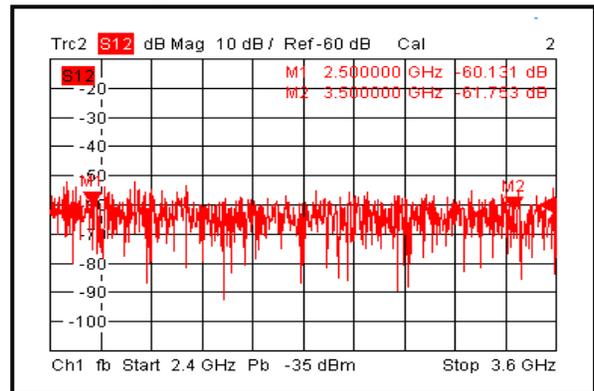
Input VSWR @+25°C



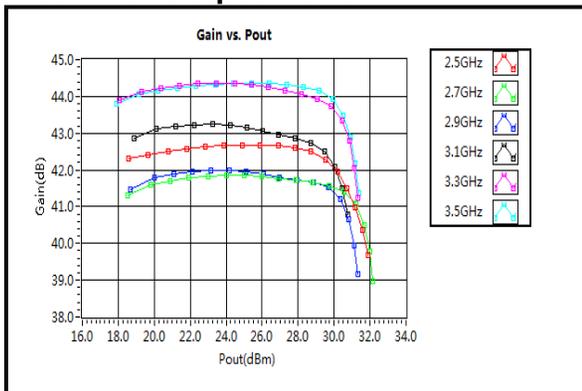
Output VSWR @+25°C



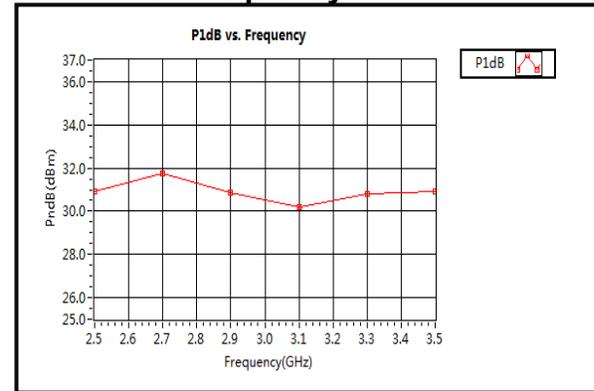
Isolation @+25°C



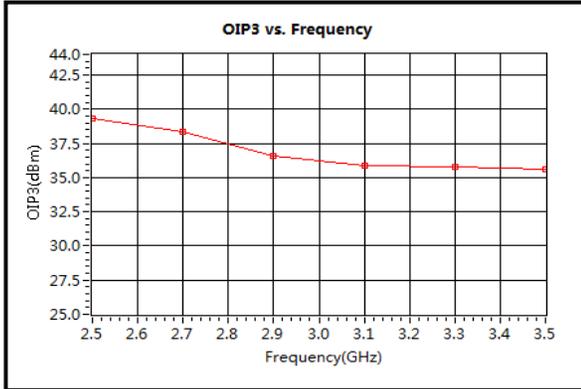
Gain vs. Output Power



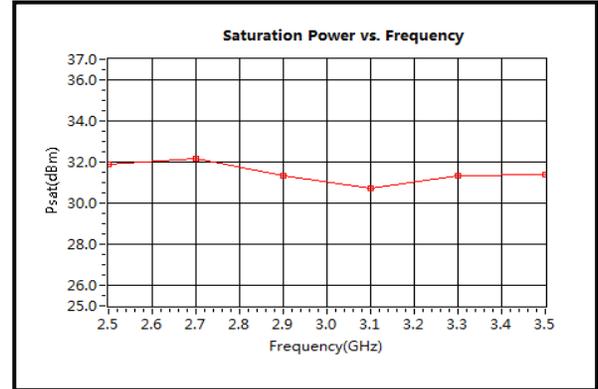
P1dB vs. Frequency



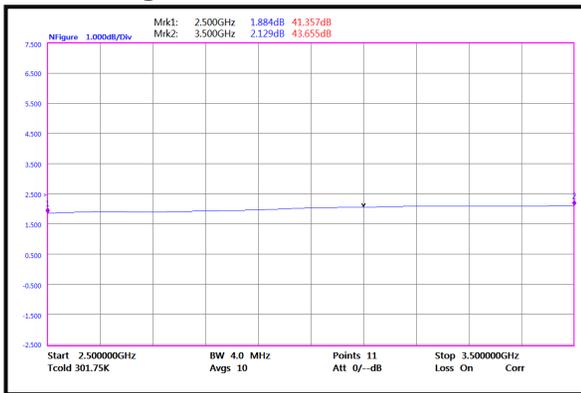
OIP3 vs. Frequency



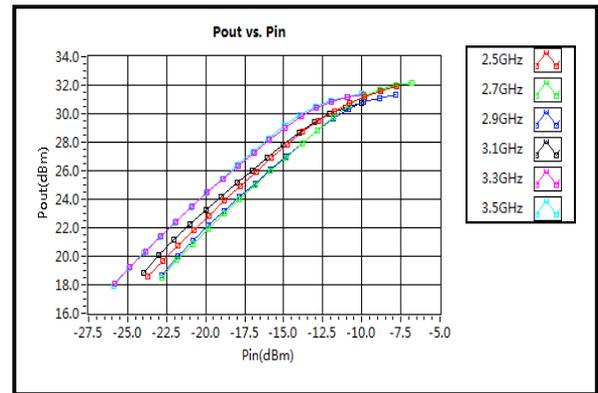
Saturation Power vs. Frequency



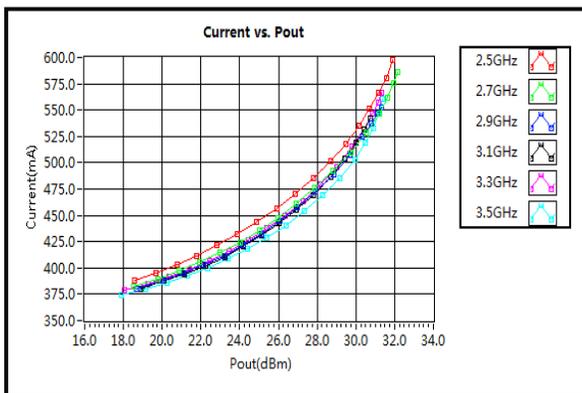
Noise Figure



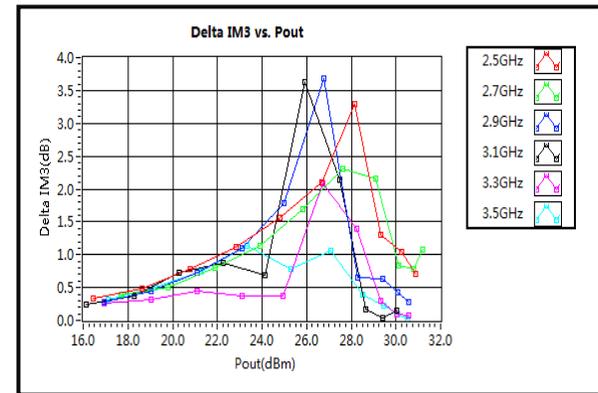
Pout vs. Pin



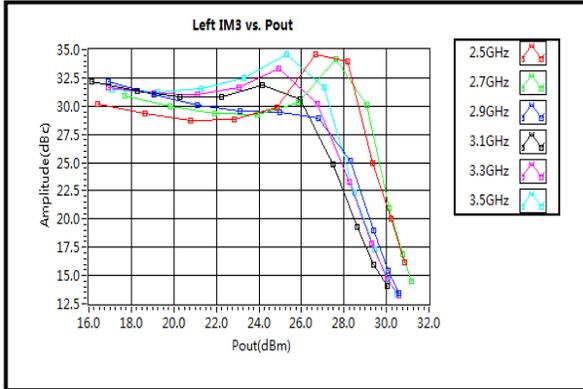
Current vs. Pout



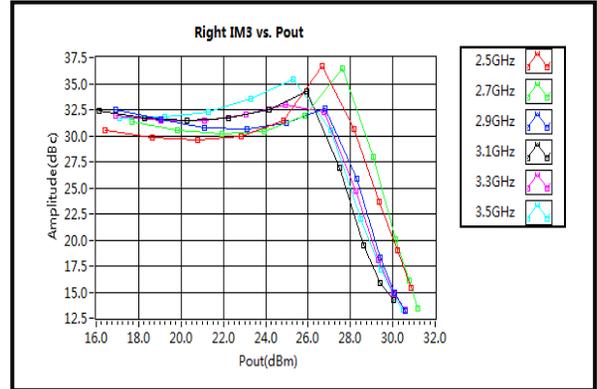
Delta IM3 vs. Pout



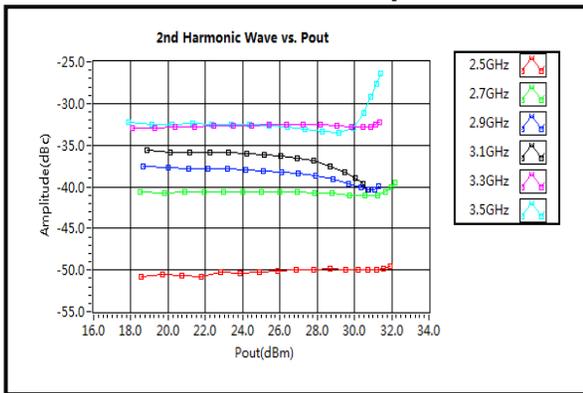
Left IM3 vs. Pout



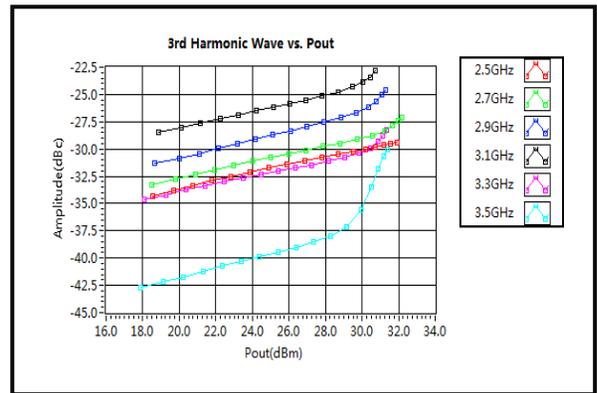
Right IM3 vs. Pout



2nd Harmonic Wave Output Power



3rd Harmonic Wave Output Power



4th Harmonic Wave Output Power

