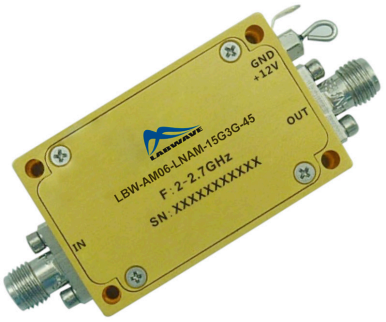
P/N:LBW-AM06-LNAM-15G3G-45

Широкополосный малошумящий усилитель
2 ГГц — 2,7 ГГц

Характеристики:

- Коэффициент усиления: 45 дБ (тип.)
- Функциональная пропускная способность: 1,5 ГГц — 3 ГГц
- Шум: 1,3 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +16 дБм (тип.)
- Напряжение питания: +12 В
- Согласованный вход/выход 50 Ом



Области применения:

- Беспроводные сети
- 5G сети
- Оборудование для тестирования и измерений
- Микроэлектроника и спутниковая связь
- Оптоволоконные сети

RoHS COMPLIANT

ESD

Parameter	Min.	Typ.	Max.	Min.
Frequency Range	1.5		3.0	GHz
Gain	42	45		dB
Gain Flatness		±1.5		dB
Gain Variation Over Temperature (-40℃~+85℃)		±1.0		dB
Noise Figure		1.3	2.0	dB
Input VSWR		1.5	1.8	: 1
Output VSWR		1.6	2.0	: 1
Output 1dB Compression Point (P1dB)	15	16		dBm
Saturated Output Power (Psat)		18		dBm
Output Third Order Intercept (OIP3)		27		dBm
Supply Current (Vcc=+12V)		270	330	mA
Isolation S12		-50		dB

Weight	1.1 Max. ounces	Impedance	50 ohms
Input /Output Connectors	SMA-Female	Material	Aluminum
Finish	Gold Plated	Package Sealing	Epoxy Sealed (Standard)
			Hermetically Sealed (Option with extra charge)

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Absolute Maximum Ratings

Operating Voltage	+15 V
RF Input Power	-18dBm

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.

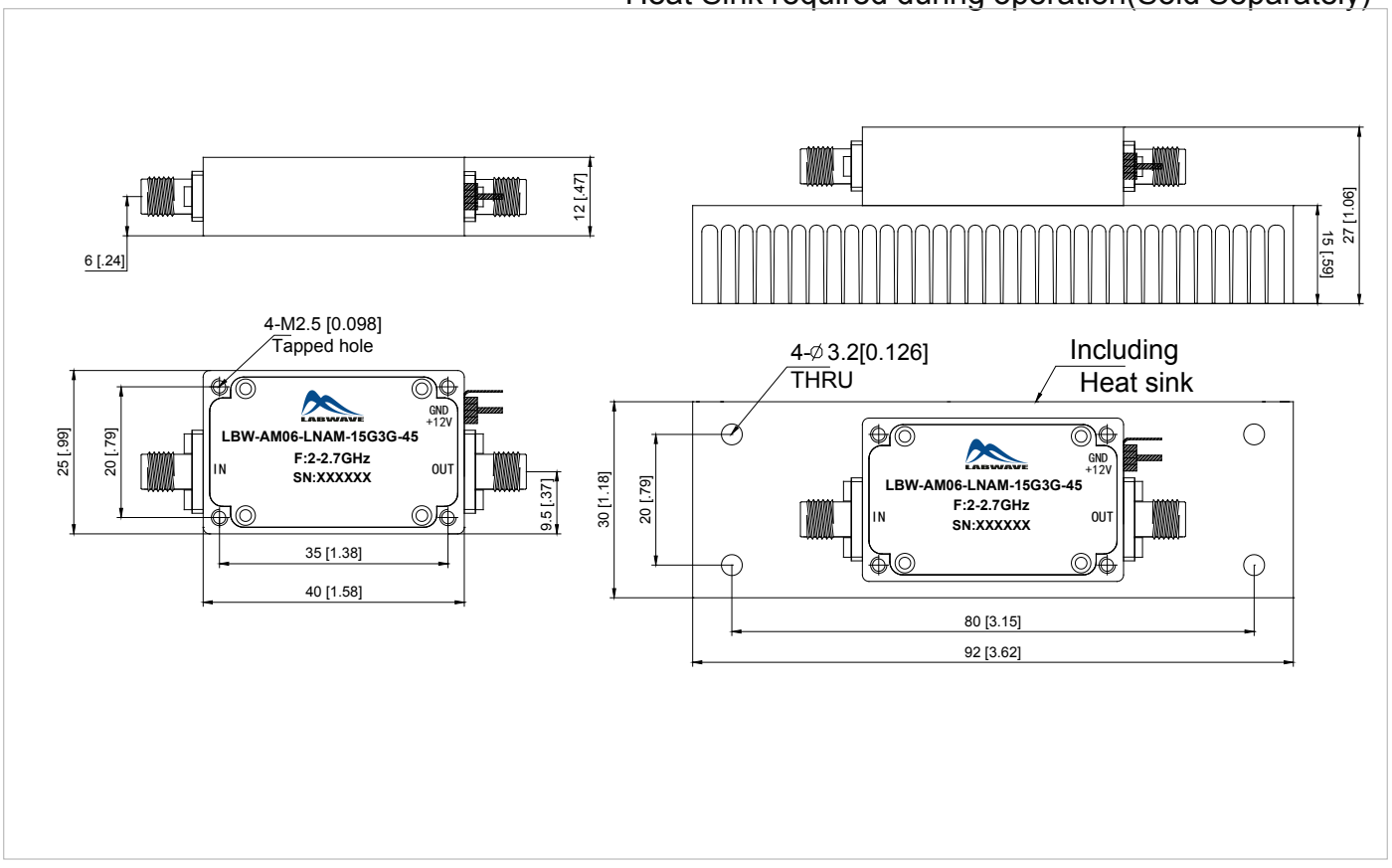
Environmental Specifications

Operational Temperature	-40ºC~+85ºC(Case Temperature)
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
(Optional)	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)
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)



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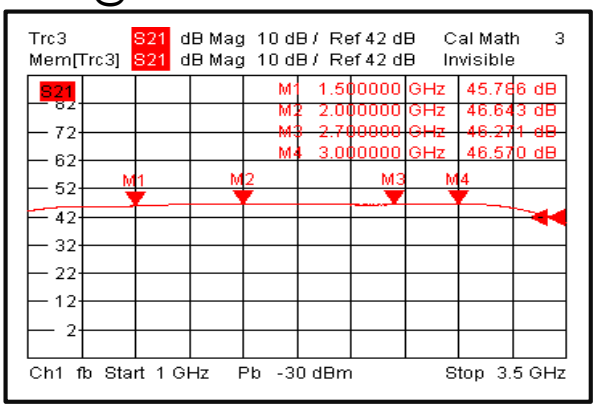
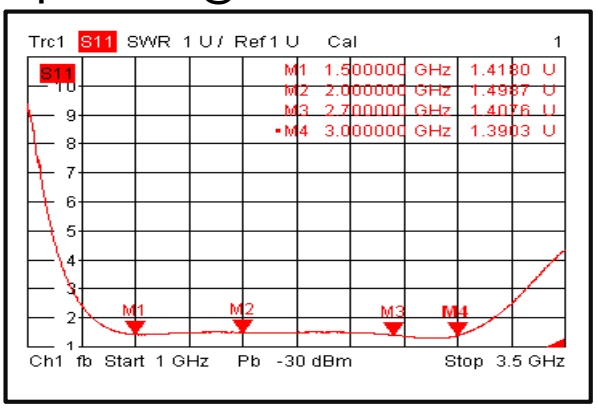
Широкополосный малошумящий усилитель 2 ГГц — 2,7 ГГц

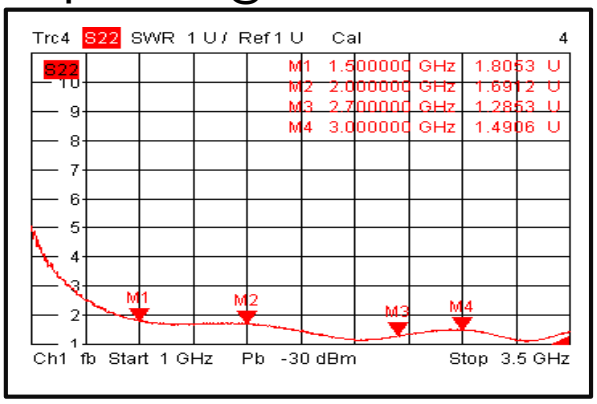
Gain @+25℃



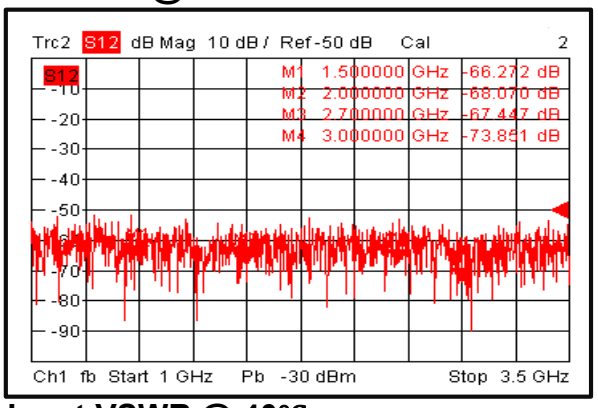
Input VSWR @+25℃



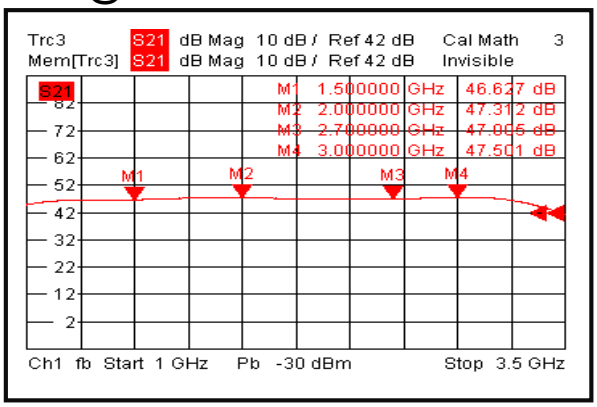
Output VSWR @+25℃



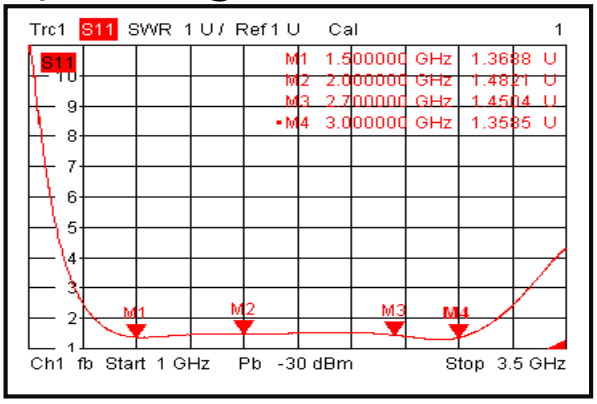
Isolation @+25℃



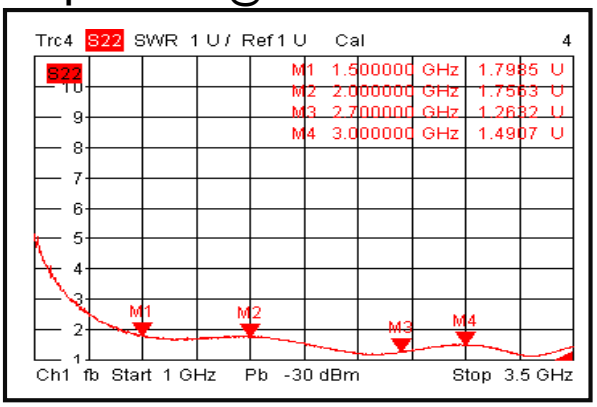
Gain @-40℃



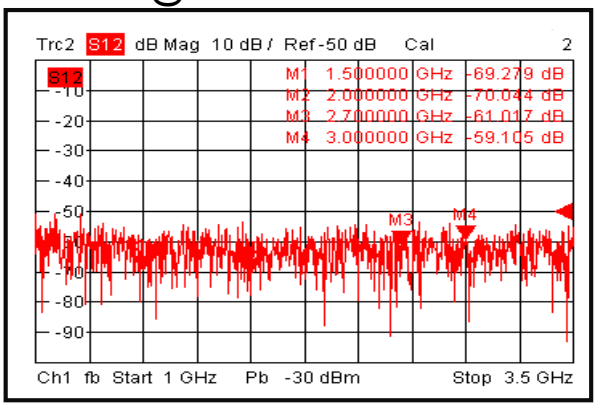
Input VSWR @-40℃



Output VSWR @-40℃



Isolation @-40℃



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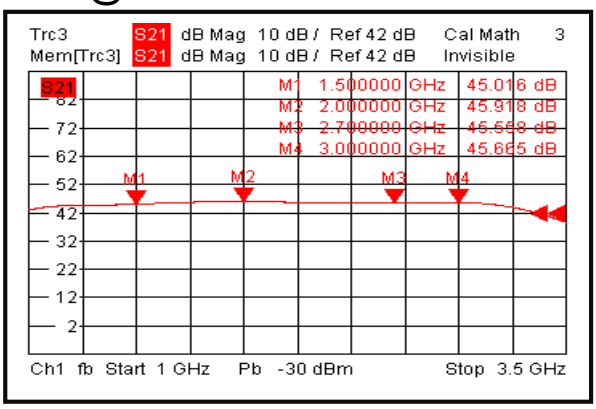
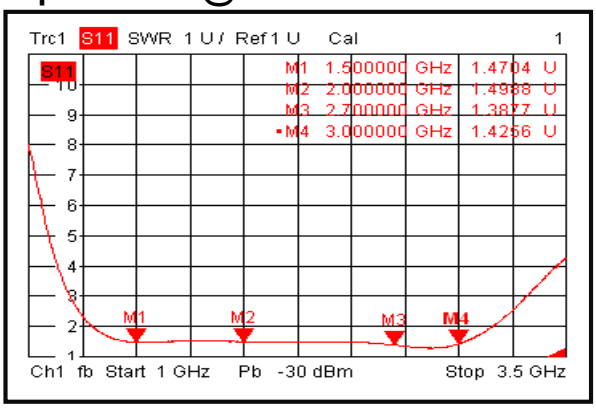
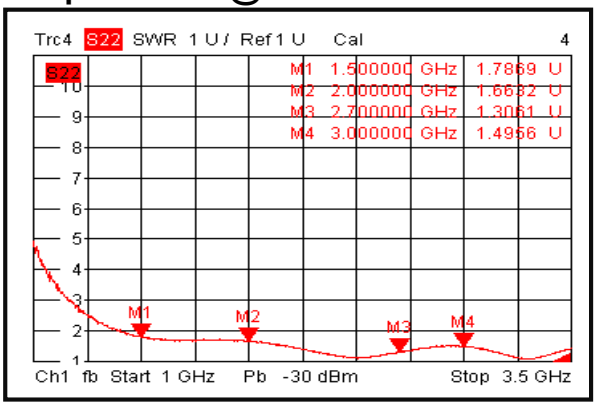
Gain @+85℃



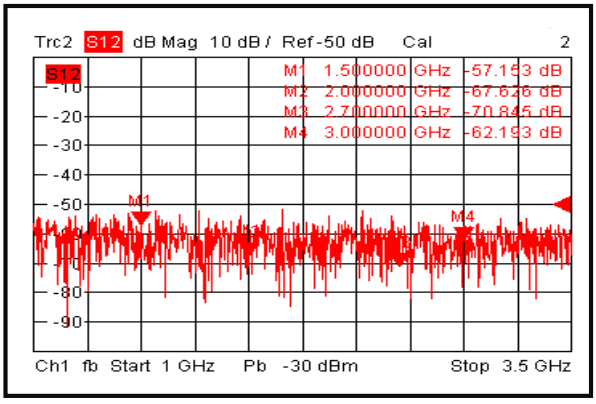
Input VSWR @+85℃



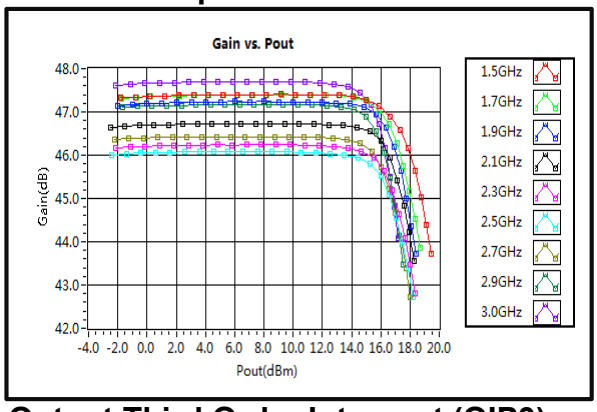
Output VSWR @+85℃



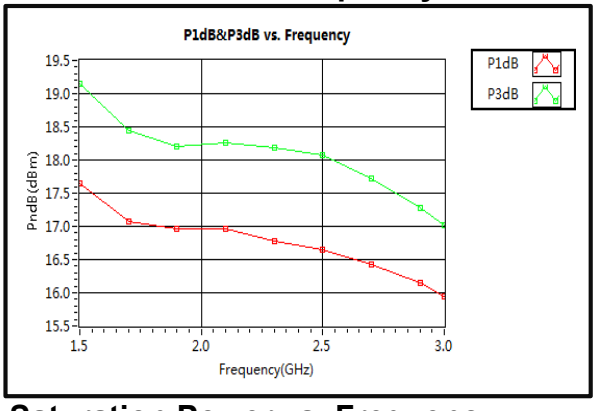
Isolation @+85℃



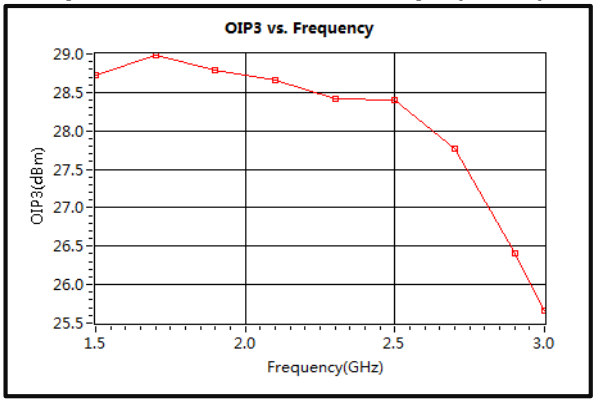
Gain vs. Output Power



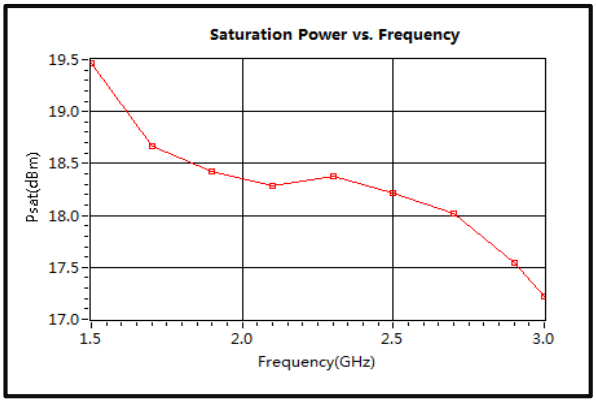
P1dB & P3dB vs. Frequency



Output Third Order Intercept (OIP3)



Saturation Power vs. Frequency



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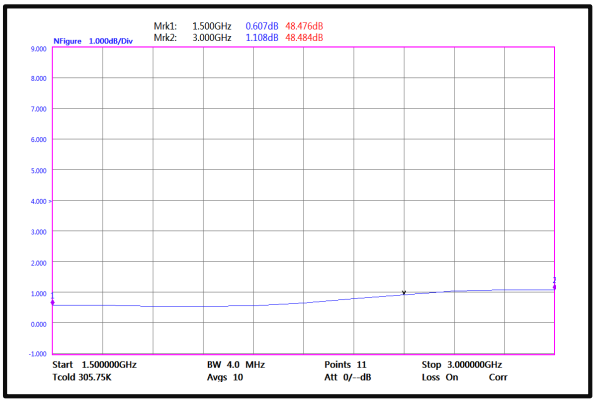
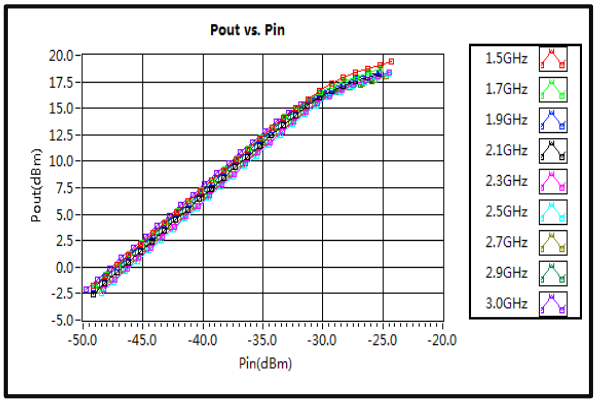
Noise Figure



Pout vs. Pin



Current vs. Pout