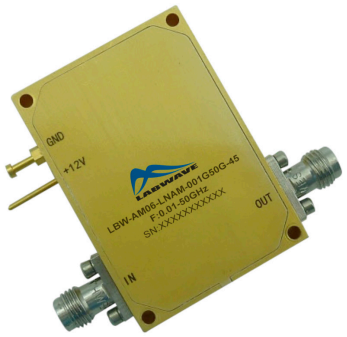
P/N:LBW-AM06-LNAM-001G50G-45

Широкополосный малошумящий усилитель
0,01 ГГц — 50 ГГц

Характеристики:

- Коэффициент усиления: 45 дБ (тип.)
- Шум: 5,0 дБ (тип.)
- Выходная мощность по уровню 1 дБ компрессии: +21 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

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.01		20	20		40	40		50	GHz
Gain	38	45		35	43		30	36		dB
Gain Flatness		±3.5			±3.0			±3.0		dB
Gain Variation Over Temperature (-40ºC~+85ºC)		±1.5			±2.5			±4.0		dB
Noise Figure		5.0			5.0	9.0		9.0		dB
Input VSWR		1.6			1.6			1.6		: 1
Output VSWR		1.8			2.2			2.5		: 1
Output 1dB Compression Point (P1dB)	19	22		15	18		8.5	13		dBm
Saturated Output Power (Psat)		24			19			15		dBm
Output Third Order Intercept (OIP3)		30			26			20		dBm
Supply Current (Idd) (Vcc=+12V)		500	650		500	650		500	650	mA
Isolation S12		-65			-60			-55		dB

Weight	1.6 ounces (Max.)	Impedance	50ohms
Input /Output Connectors	2.4mm-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	+15V
RF Input Power (RFIN)	@0.01-26.5GHz -17dBm @26.5-50GHz -13dBm

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

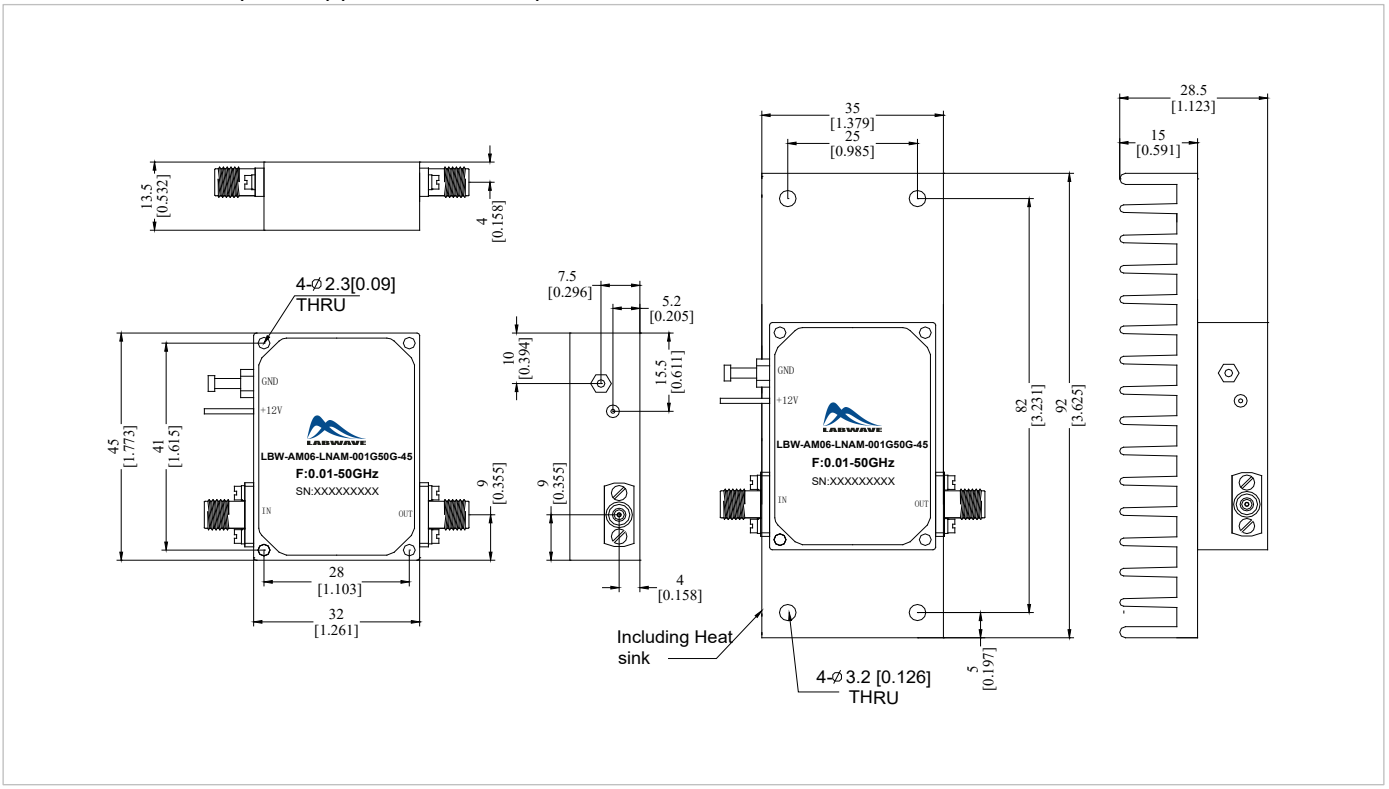
Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35ºc, 95%RH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

Outline Drawing:

All Dimensions in mm (inches)

Tolerances ±0.1(0.004)(Excl heatsink)

Heat Sink required during operation(Sold Separately)



P/N:LBW-AM06-LNAM-001G50G-45

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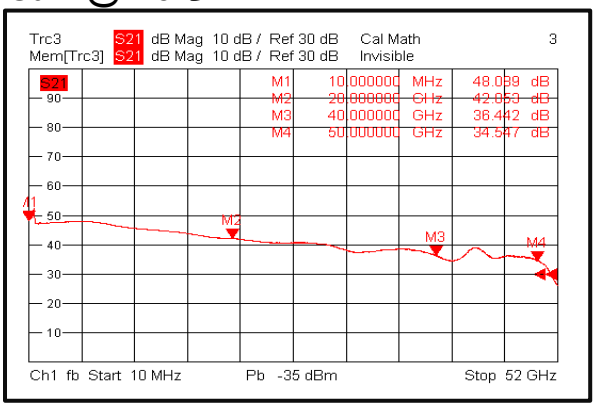
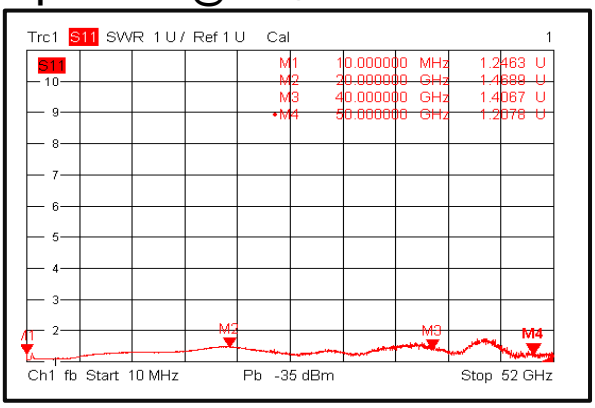
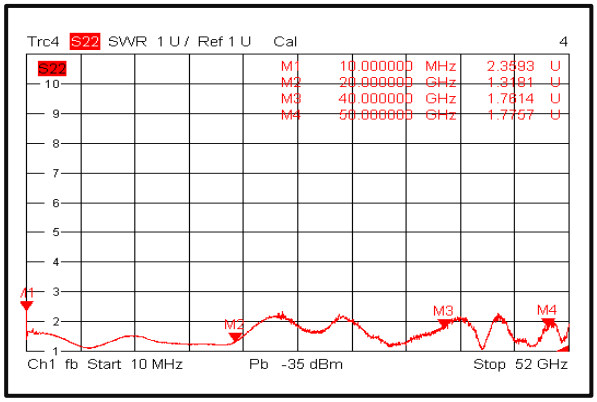
Gain @+25℃



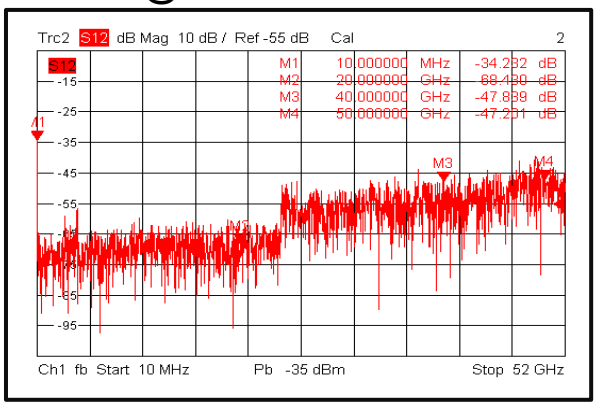
Input VSWR@+25℃



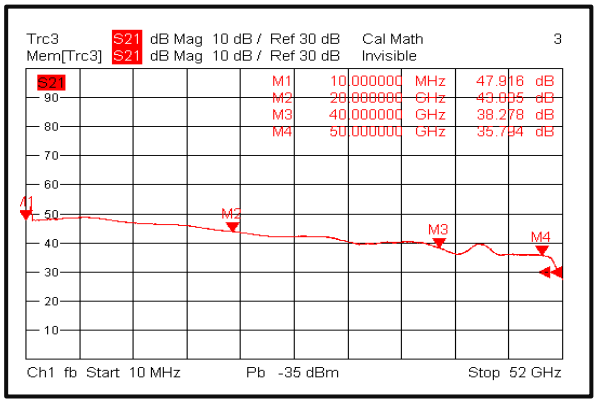
Output VSWR @+25℃



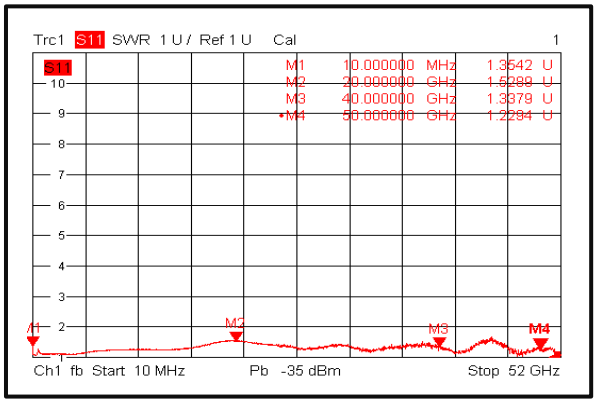
Isolation@+25℃



Gain @-40℃



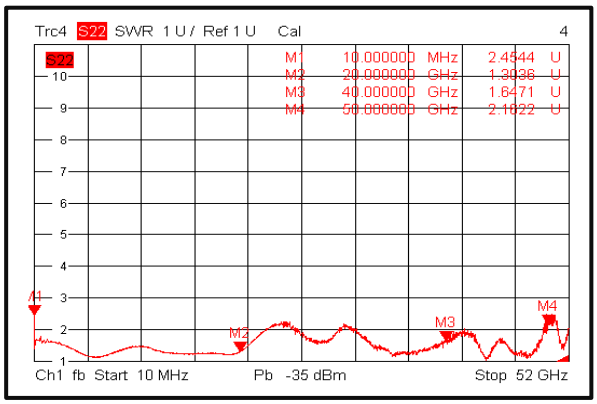
Input VSWR @-40℃



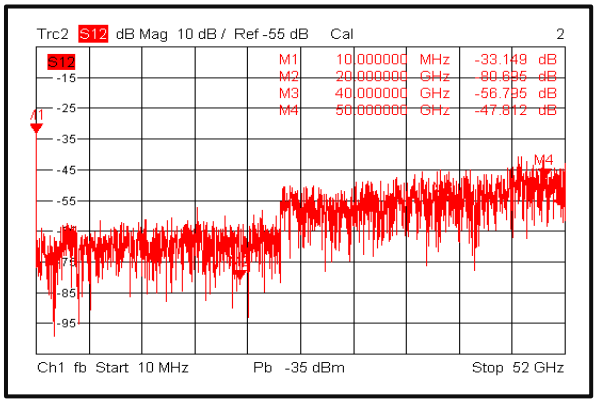
P/N:LBW-AM06-LNAM-001G50G-45

Широкополосный малошумящий усилитель 0,01 ГГц — 50 ГГц

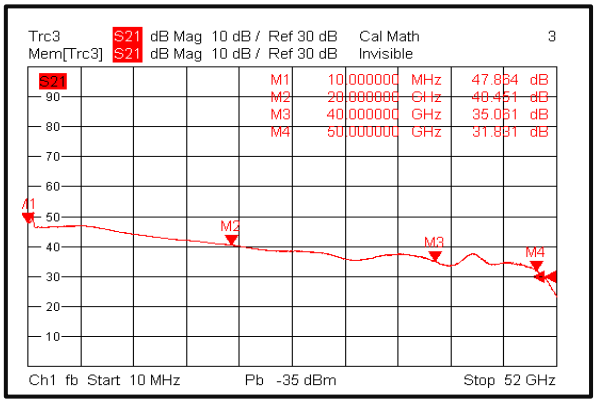
Output VSWR @-40℃



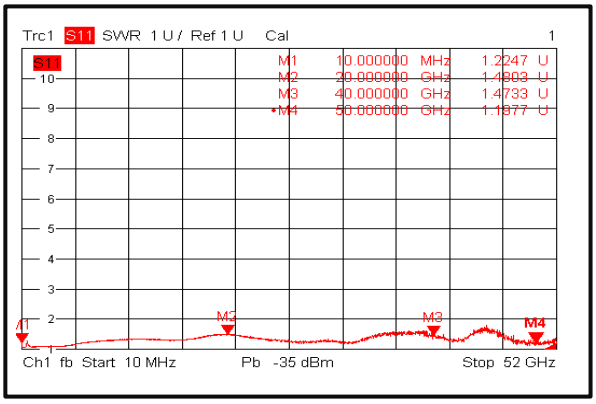
Isolation@-40℃



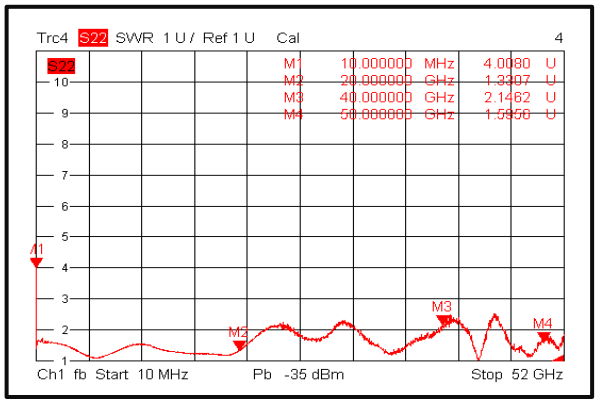
Gain @+85℃



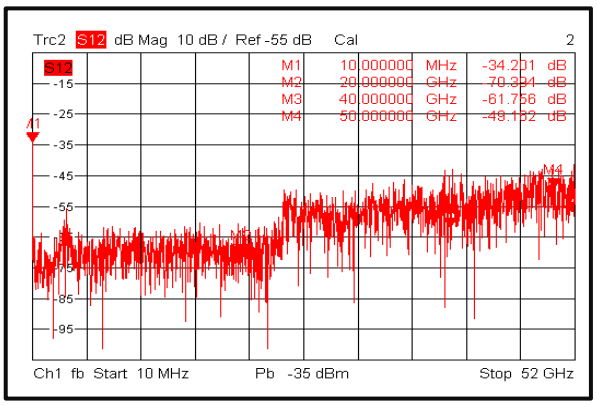
Input VSWR @+85℃



Output VSWR @+85℃



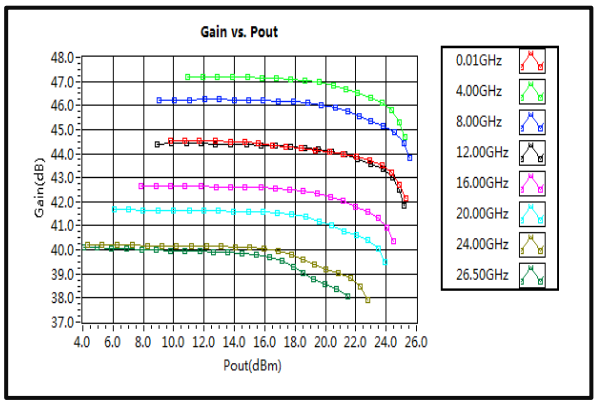
Isolation @+85℃



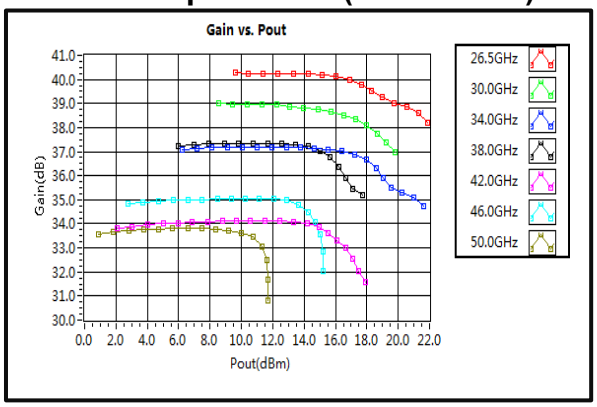
P/N:LBW-AM06-LNAM-001G50G-45

Широкополосный малошумящий усилитель 0,01 ГГц — 50 ГГц

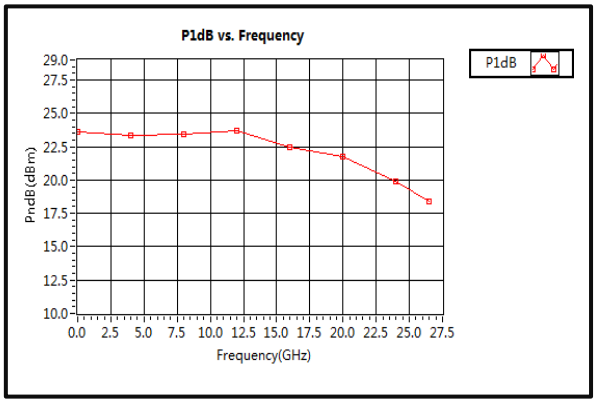
Gain vs. Output Power(0.01-26.5GHz)



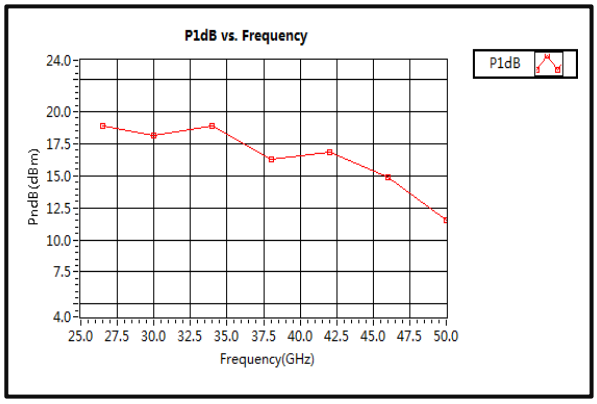
Gain vs. Output Power(26.5-50GHz)



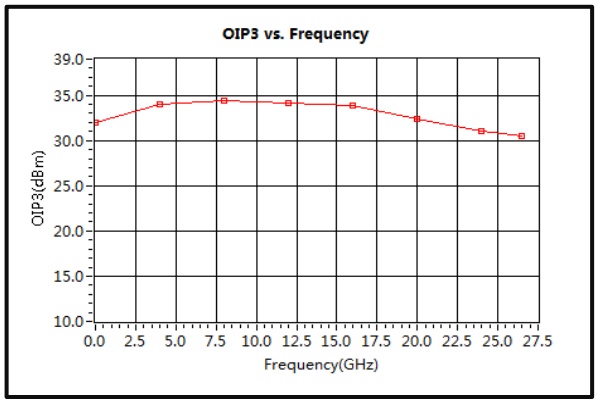
P1dB vs. Frequency(0.01-26.5GHz)



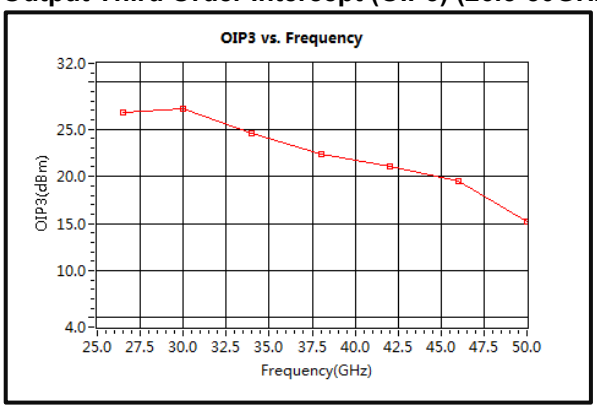
P1dB vs. Frequency(26.5-50GHz)



Output Third Order Intercept (OIP3) (0.01-26.5GHz)



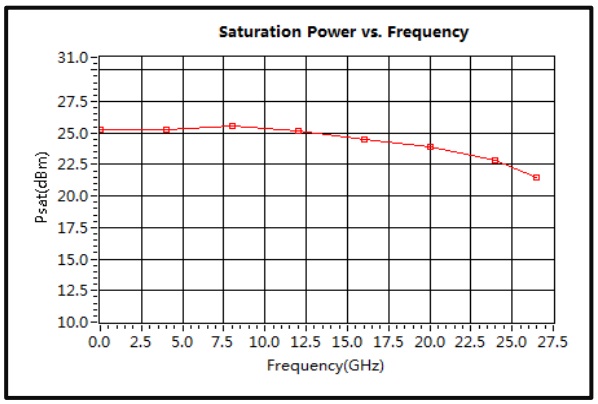
Output Third Order Intercept (OIP3) (26.5-50GHz)



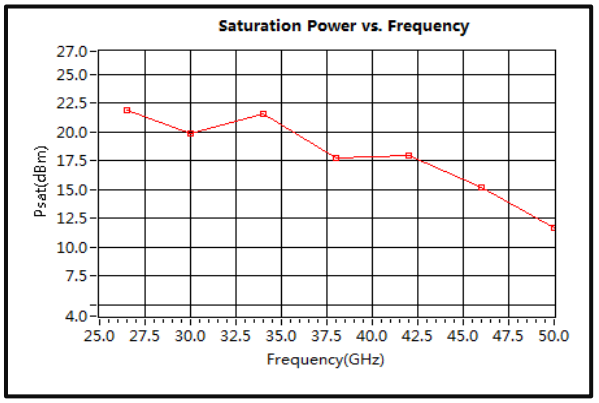
P/N:LBW-AM06-LNAM-001G50G-45

Широкополосный малошумящий усилитель 0,01 ГГц — 50 ГГц

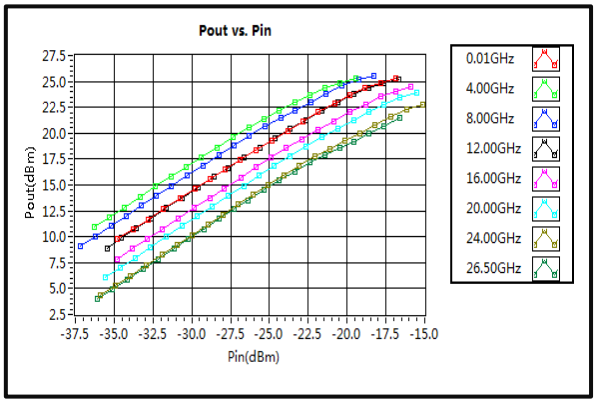
Saturation Power vs. Frequency(0.01-26.5GHz)



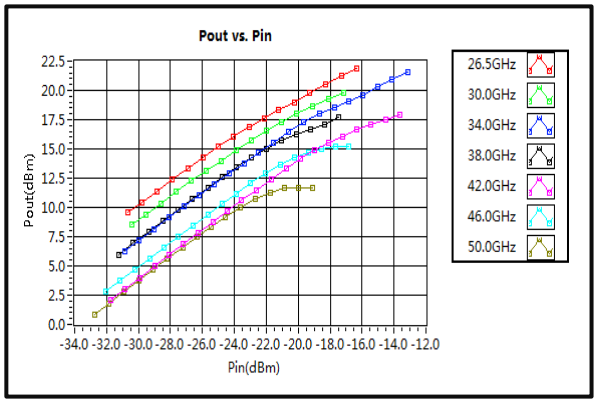
Saturation Power vs. Frequency(26.5-50GHz)



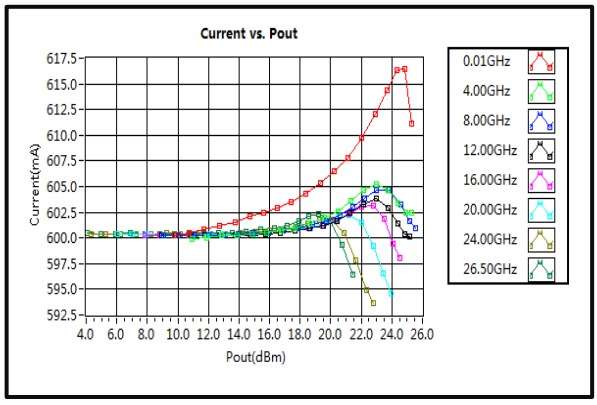
Pout vs. Pin(0.01-26.5GHz)



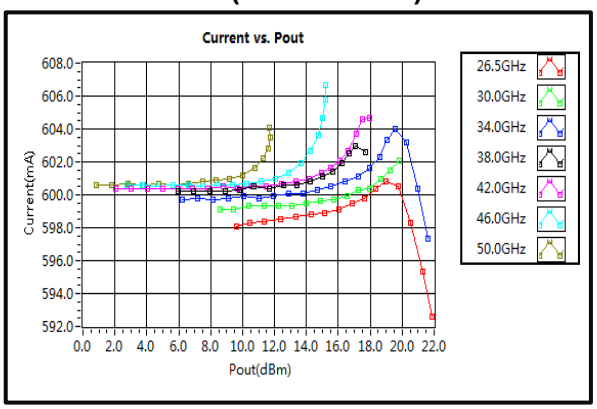
Pout vs. Pin(26.5-50GHz)



Current vs. Pin(0.01-26.5GHz)



Current vs. Pin(26.5-50GHz)



P/N:LBW-AM06-LNAM-001G50G-45

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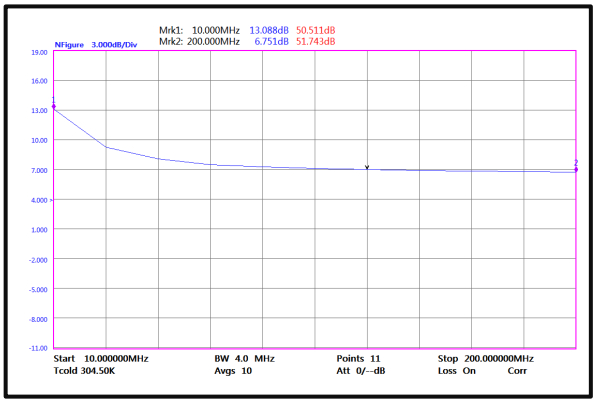
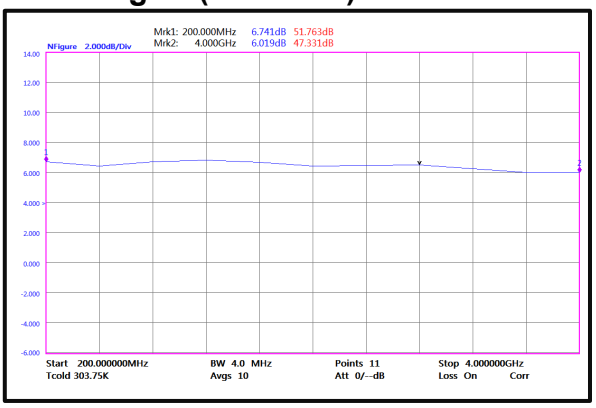
Noise Figure(10-200MHz)



Noise Figure(0.2-4GHz)



Noise Figure(4-26.5GHz)