

Model: TLLA0.8G21G-26-30
Low Noise Amplifier
0.8-21GHz, NF:3.5dB, Gain:26dB, P1dB:23dBm
Feature:

- Ultra Wide Band: 0.8-21GHz
- Gain: 26dB Typ
- Noise Figure: 3.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.8-21			GHz
Gain	23	26		dB
Gain Flatness		±2.0	±3	dB
Noise Figure		3.5	5.5	dB
Output P1dB		23		dBm
Input VSWR		1.8	2.2	:1
Output VSWR		1.8	2.2	:1
DC Voltage		12	15	V DC
DC Supply Current		250		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	/	g

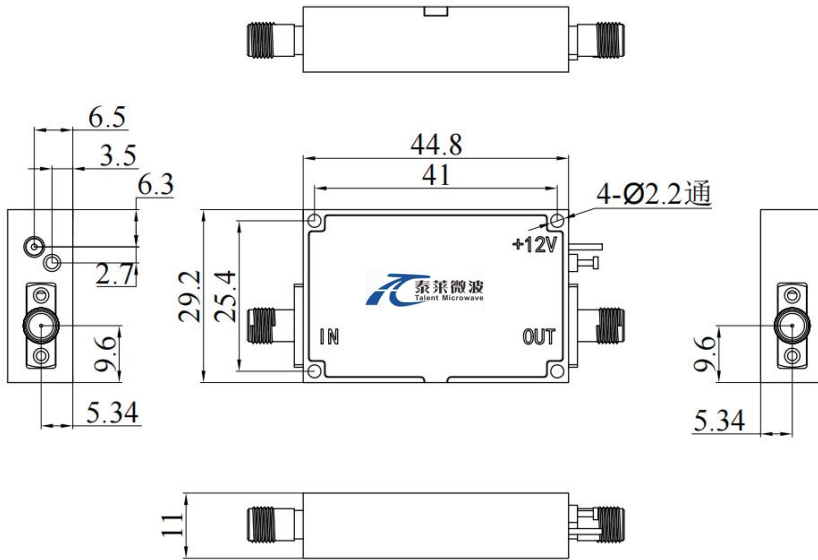
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm(inches)



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

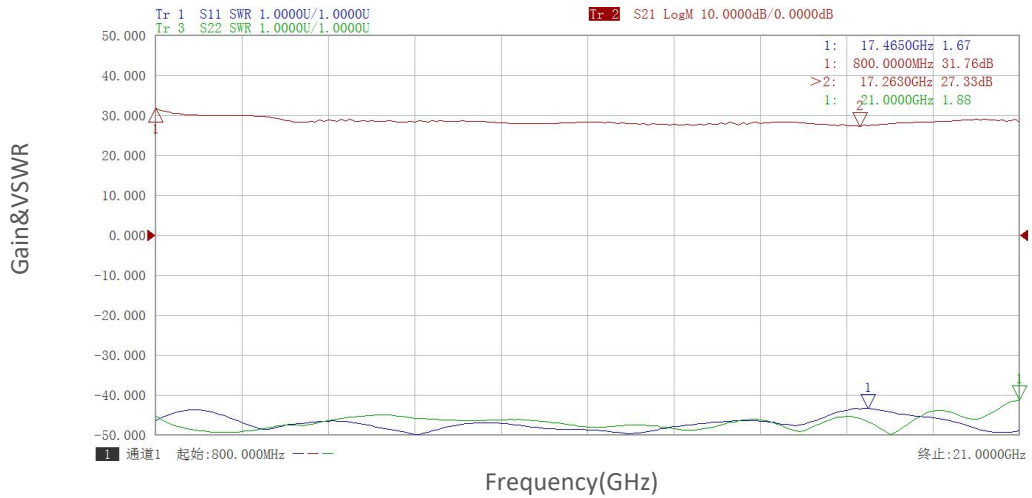
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude		50,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

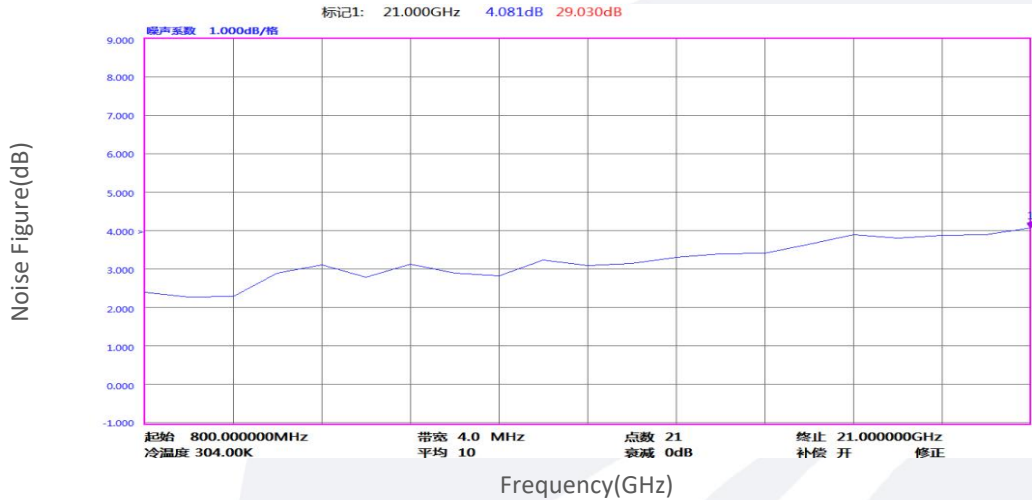
Part Number	Description	Revision
TLLA0.8G21G-26-30	Low Noise Amplifier, 0.8-21GHz, Noise Figure:3.5dB, Gain:26 dB,P1dB:23dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.8G21G-26-30-HS	Low Noise Amplifier, 0.8-21GHz, Noise Figure:3.5dB, Gain:26 dB,P1dB:23dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

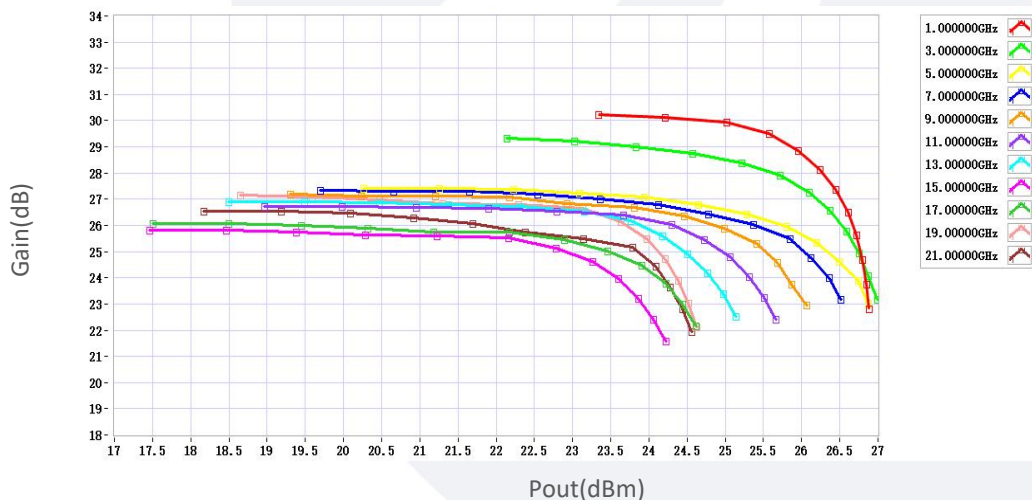
Gain&VSWR vs Frequency



Noise Figure vs Frequency

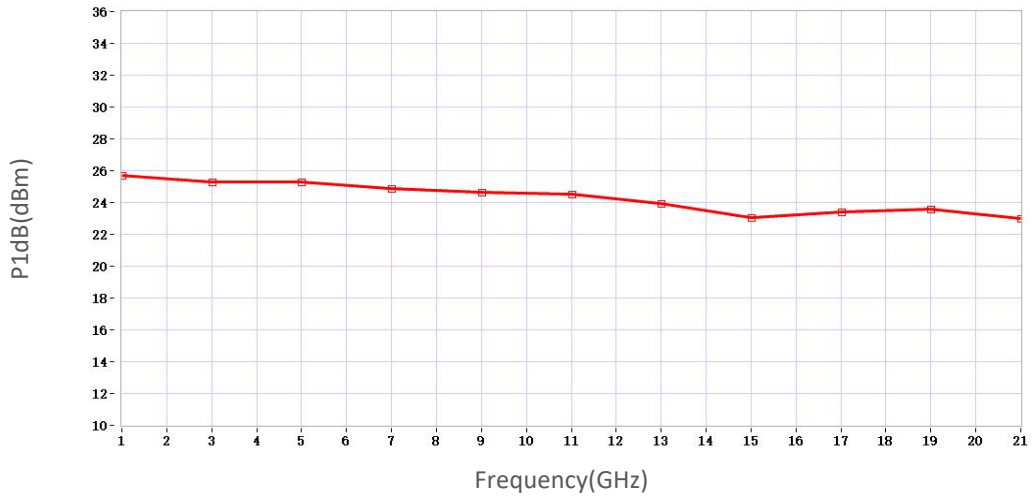


Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

