

Model:TLLA8G12G-32-15

Low Noise Amplifier 8-12GHz, NF:1.5dB, Gain:32dB,P1dB:15dBm

Feature:

- Ultra Wide Band: 8-12GHz
- Gain: 32dB Min
- Noise Figure: 1.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	8-12			GHz
Gain	32			dB
Gain Flatness			±1.5	dB
Noise Figure			1.5	dB
Output P1dB	15			dBm
Input VSWR			2	:1
Output VSWR			2	:1
DC Voltage		12	15	V DC
DC Supply Current		100		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	32.1*29.2*11	mm
Weight	300	g

Absolute Maximum Ratings:

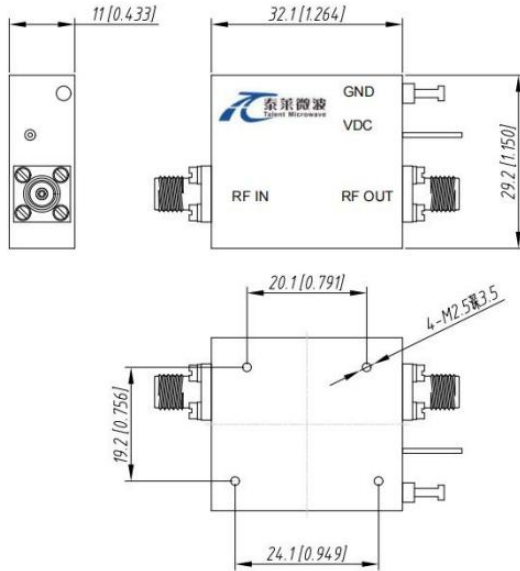
Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

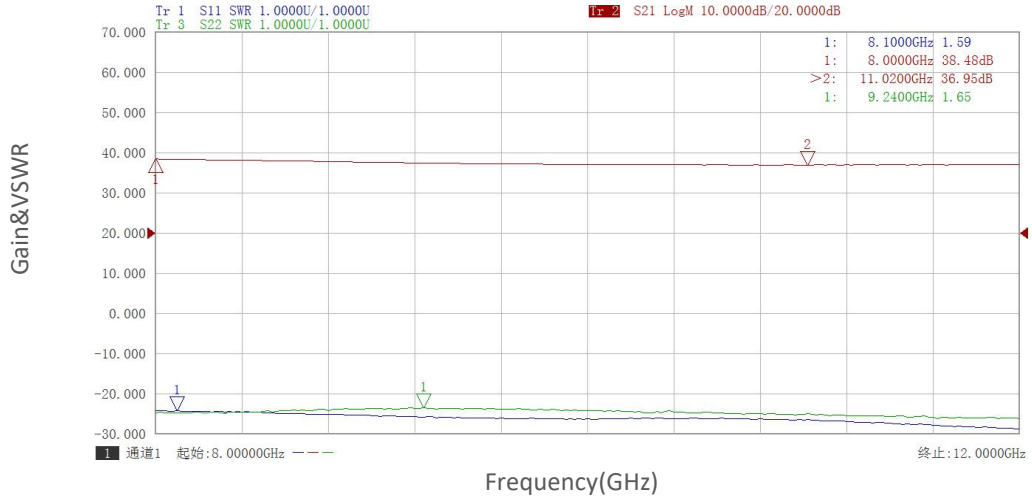
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

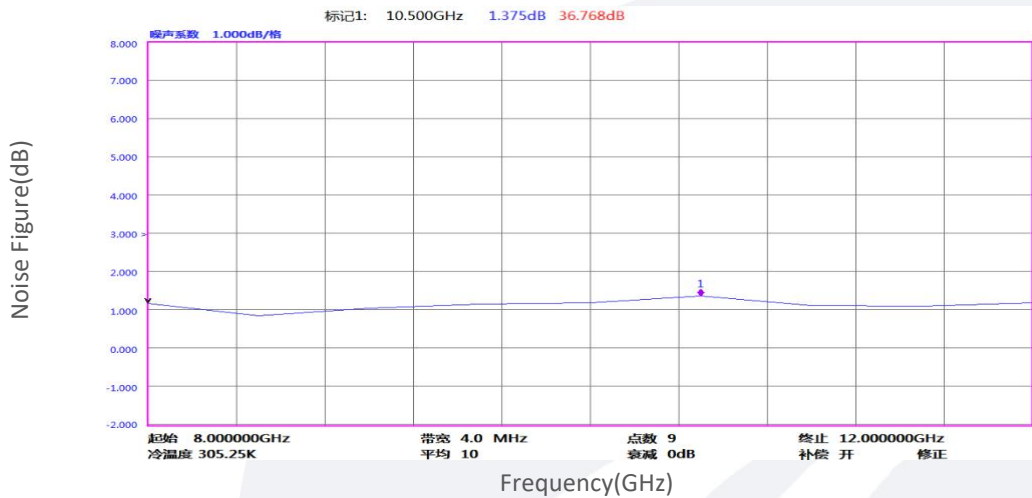
Part Number	Description	Revision
TLLA8G12G-32-15	Low Noise Amplifier, 8-12GHz, Noise Figure:1.5dB, Gain:32 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA8G12G-32-15-HS	Low Noise Amplifier, 8-12GHz, Noise Figure:1.5dB, Gain:32 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

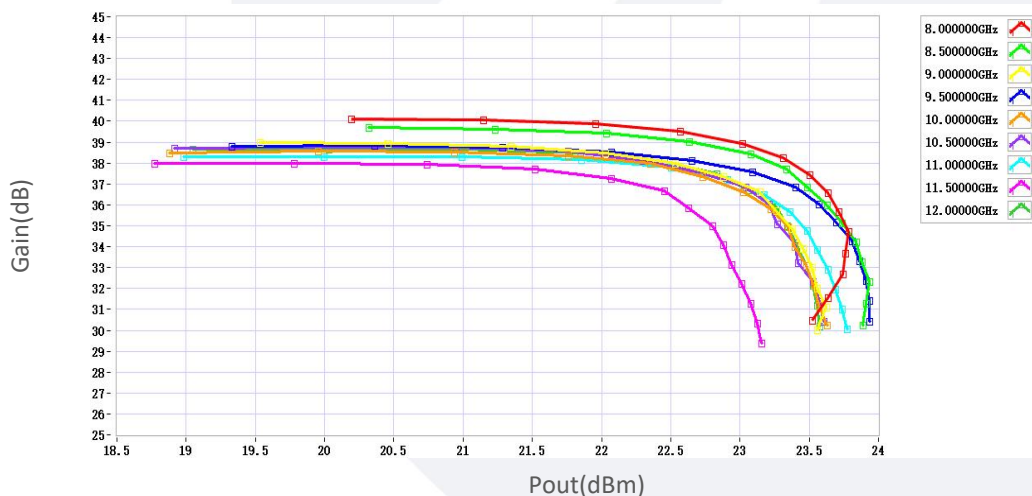
Gain&VSWR vs Frequency



Noise Figure vs Frequency

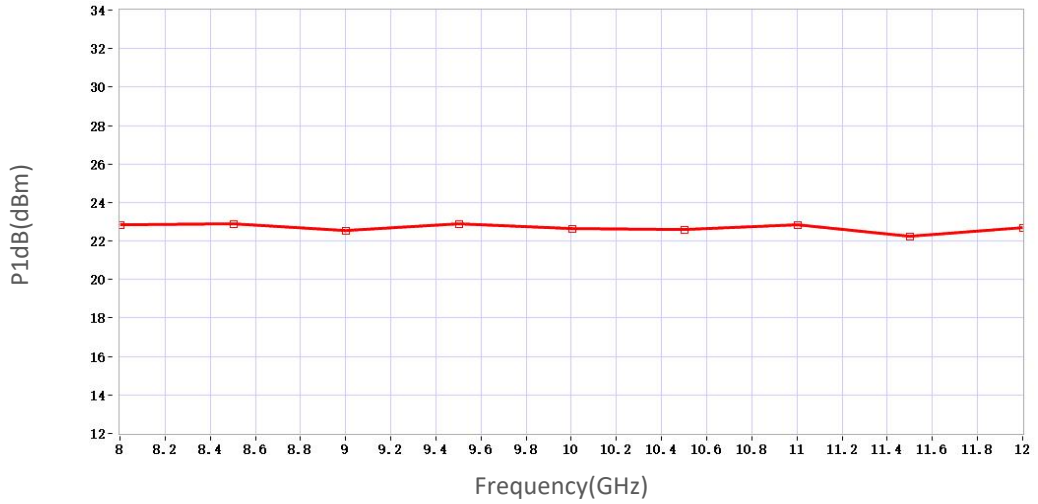


Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

