

Model:TLLA0.01G26.5G-32-40

**Low Noise Amplifier , 0.01-26.5GHz,
NF:4.0dB, Gain:32dB,P1dB:20dBm**

Feature:

- Ultra Wide Band: 1-18GHz
- Gain: 32dB Typ
- Noise Figure: 4.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.01-26.5			GHz
Gain	27	32		dB
Gain Flatness		±2.5		dB
Noise Figure		4	6	dB
Output P1dB	18	20		dBm
Output IP3		22		dBm
Input VSWR		1.8		:1
Output VSWR		1.8		:1
DC Voltage		12		V DC
DC Supply Current		360		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	Solder Pin	
Size	40*35*12	mm
Weight	/	g

Absolute Maximum Ratings:

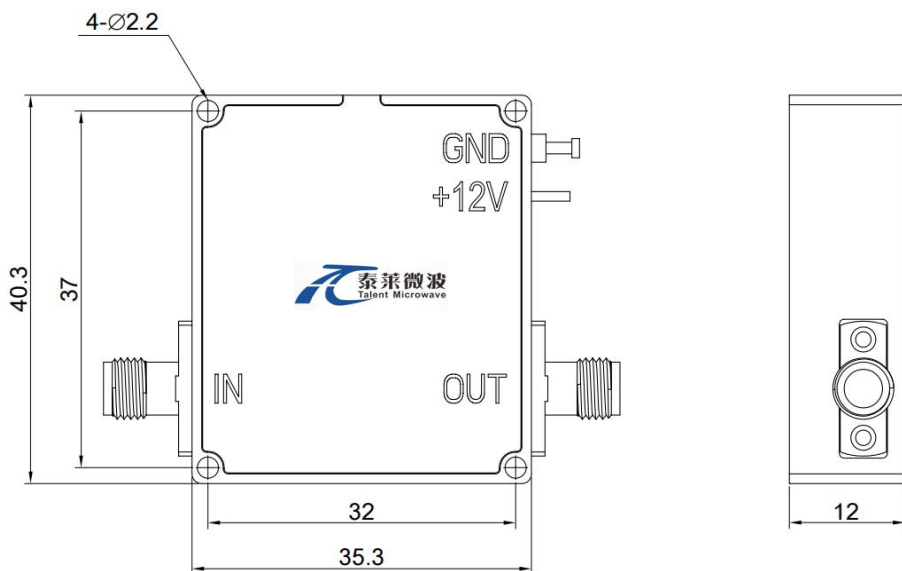
Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

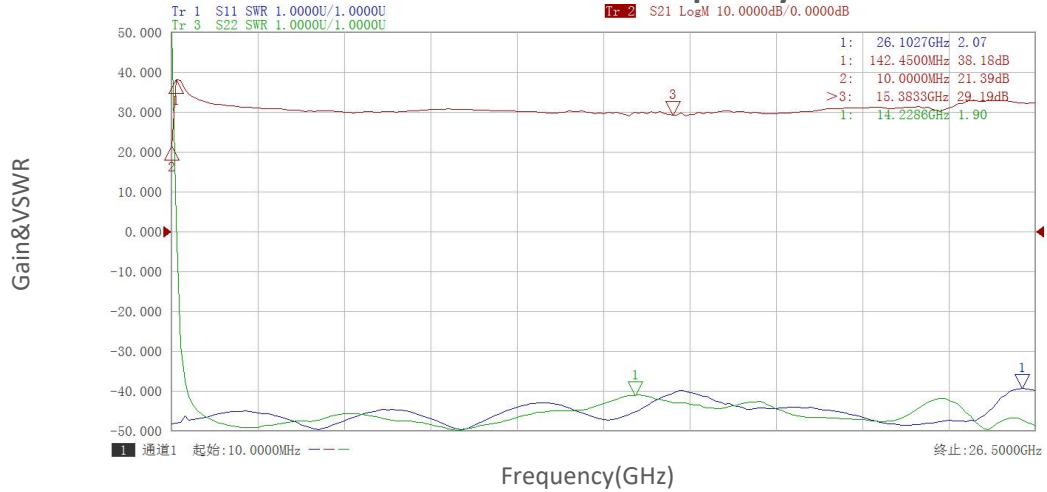
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

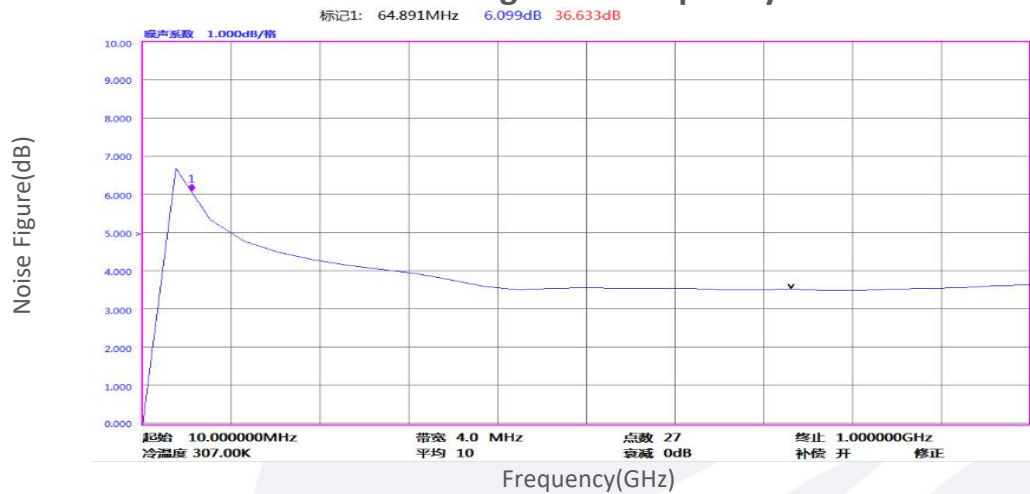
Part Number	Description	Revision
TLLA0.01G26.5G-32-40	Low Noise Amplifier, 0.01-26.5GHz, Noise Figure:4.0dB, Gain:32 dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.01G26.5G-32-40-HS	Low Noise Amplifier, 0.01-26.5GHz, Noise Figure:4.0dB, Gain:32 dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

Gain&VSWR vs Frequency



Noise Figure vs Frequency



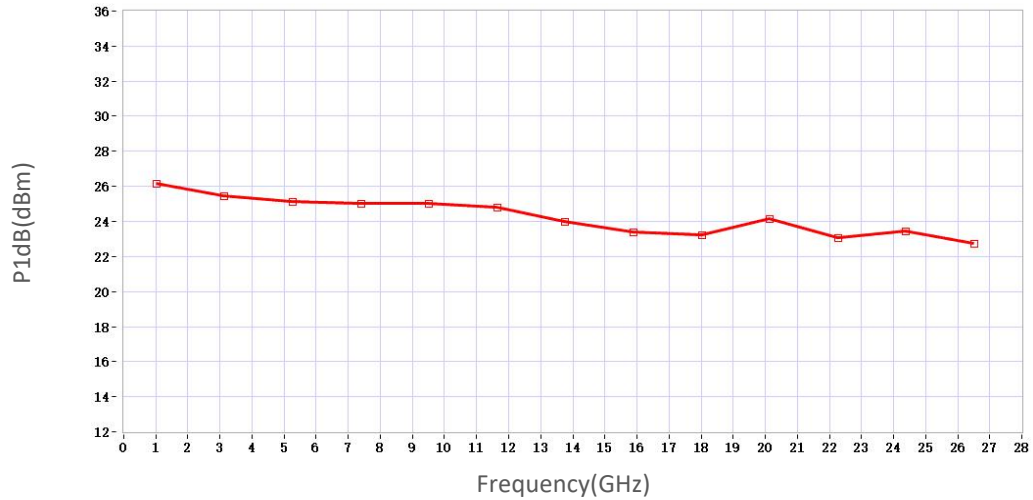
Noise Figure vs Frequency



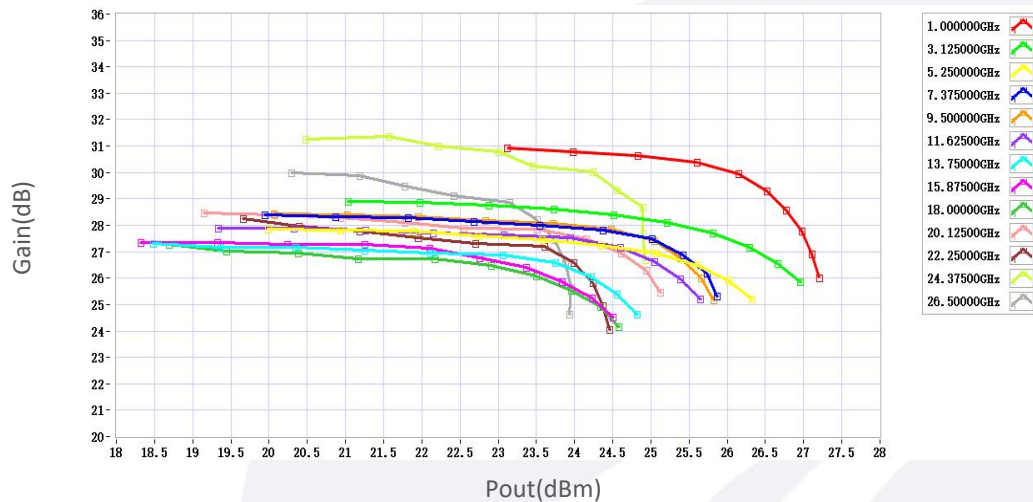
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

P1dB vs Frequency



Gain vs Output Power



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