泰莱微波
Talent Microwave

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Low Noise Amplifier

0.01-26.5GHz/4.0dB NF/32dB Gain/20dBm P1dB Model: TLLA0.01G26.5G-32-40

TLLA0.01G26.5G-32-40 is a low noise amplifier with a typical small signal gain of 32 dB and a nominal noise figure of 4.1 dB across the frequency range of 0.01 to 26.5 GHz. The DC power requirement for the amplifier is +12 V DC/360 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Ultra Wide Band: 0.01-26.5 GHz
- Gain: 32dB Typ
- Noise Figure: 4.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

Electrical Characteristics:

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	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	40*35*12	mm

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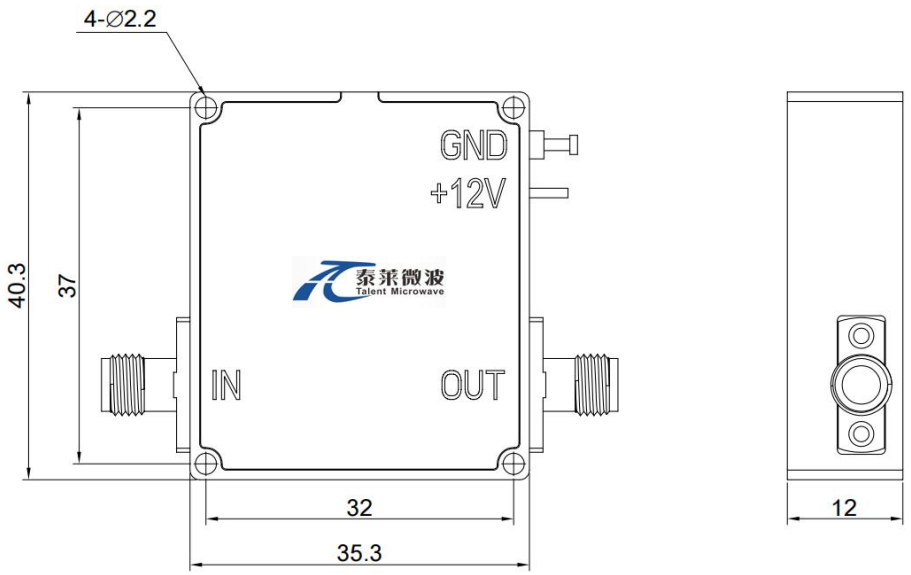
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	℃
Non-operating Temperature	-55		+125	℃
Relative humidity		95		%
Altitude	10,000			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			

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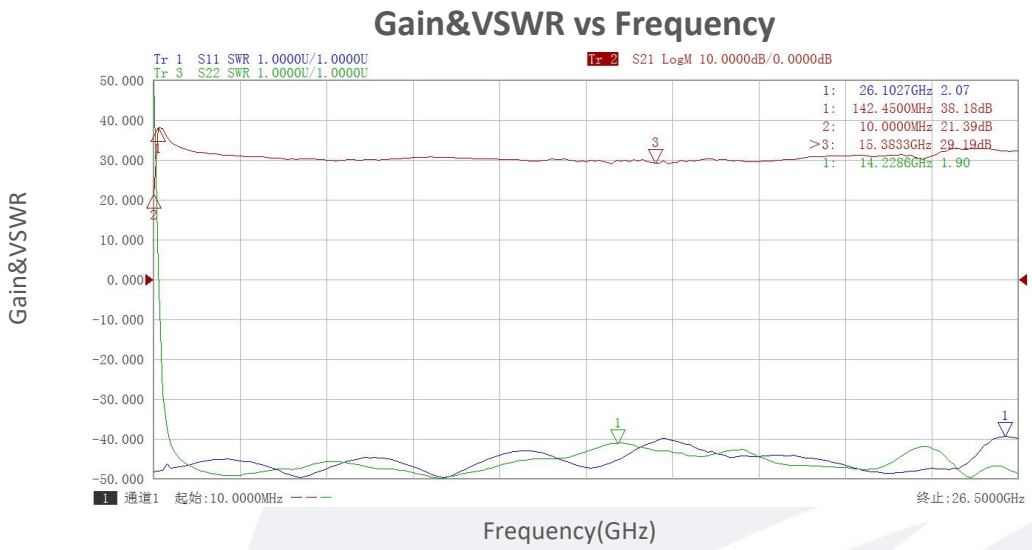
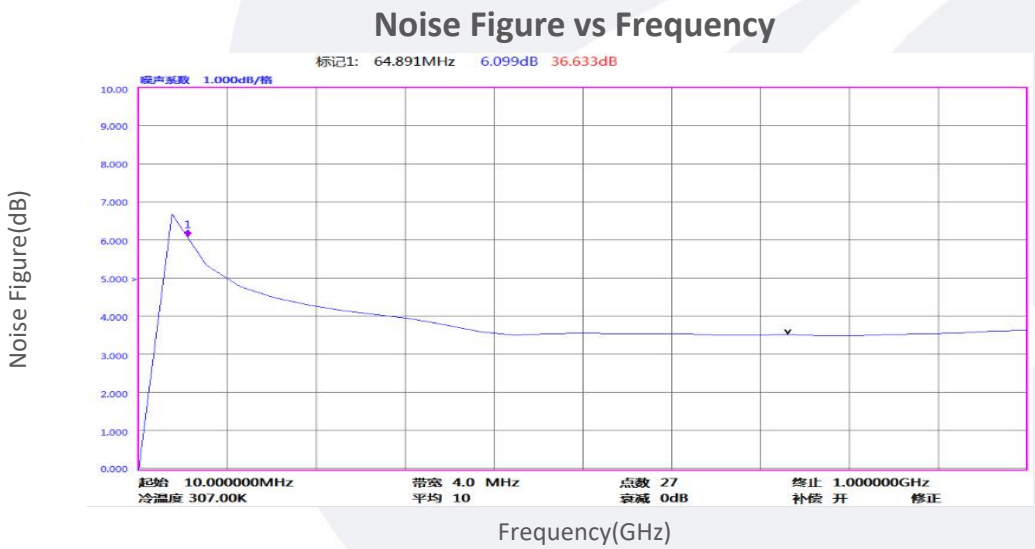
Ordering Information:

Base Number	Desciption	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:





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.

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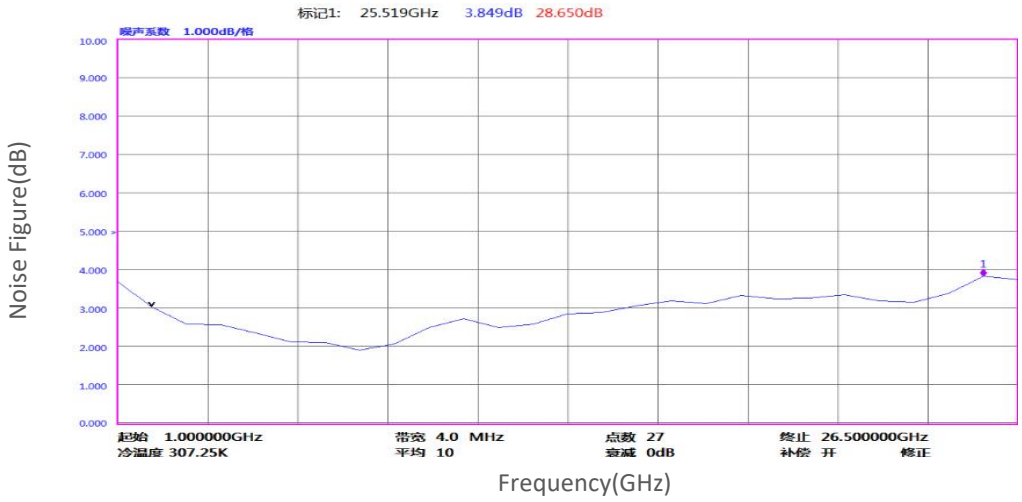
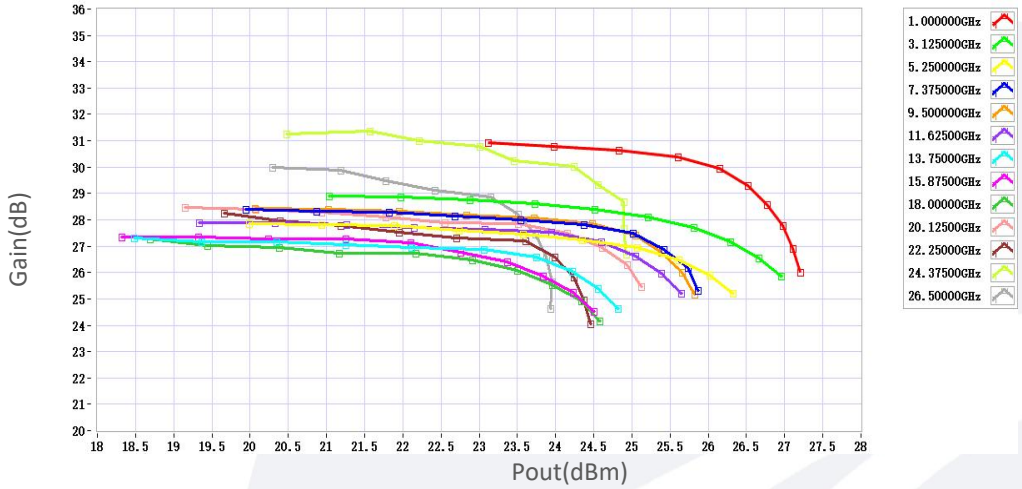
Typical Performance Data:

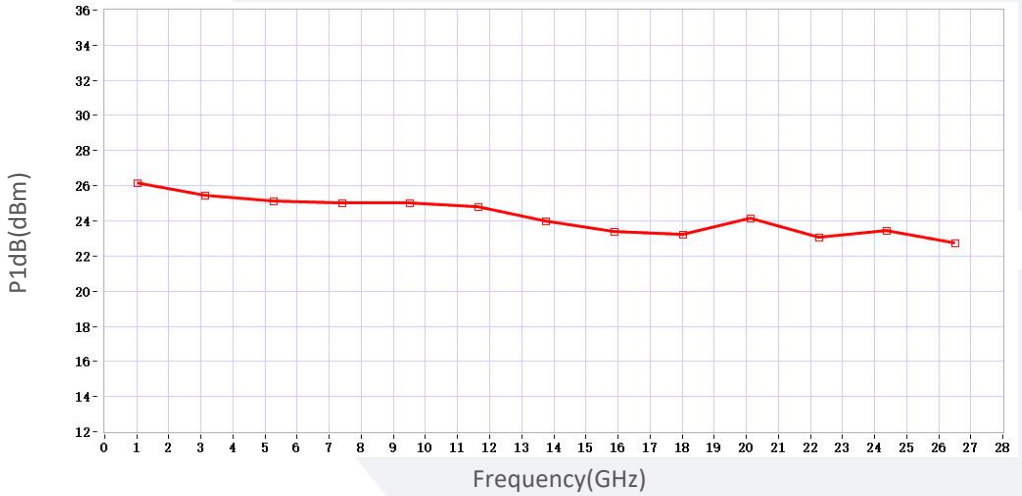
Noise Figure vs Frequency



Gain vs Output Power



P1dB vs Frequency



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