泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Model:TLLA0.1G3G-28-10

Low Noise Amplifier
0.1-3GHz, NF:1.0dB, Gain:28dB,P1dB:17dBm

Feature:

- Ultra Wide Band: 0.1-3GHz
- Gain: 28dB Min
- Noise Figure: 1.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		0.1-3		GHz
Gain	28	29		dB
Noise Figure		0.8	1	dB
Output P1dB	14	17		dBm
Output Psat		18		dBm
Input VSWR		1.8		:1
Output VSWR		1.4		:1
DC Voltage	8	12	15	V DC
DC Supply Current		70		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	20*28*10	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

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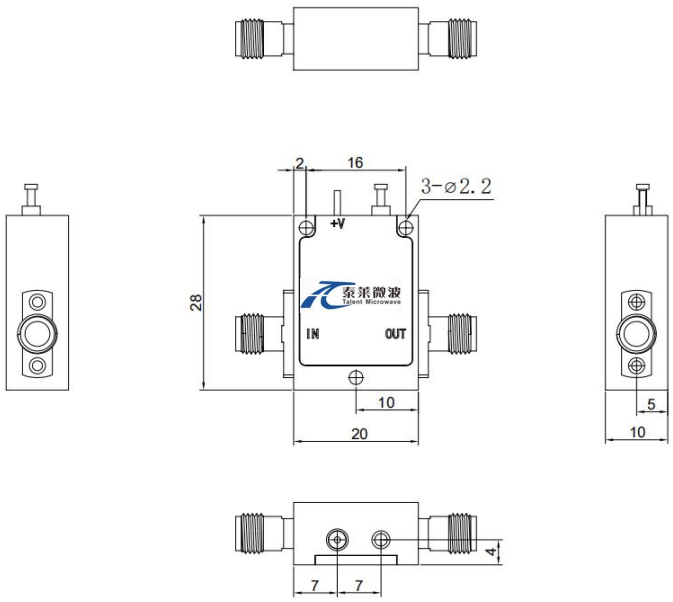
Outline Drawing:

Unit: mm(inches)



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

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	℃
Non-operating Temperature	-55		+125	℃
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
TLLA0.1G3G-28-10	Low Noise Amplifier, 0.1-3GHz, Noise Figure:1.0dB, Gain:28 dB,P1dB:17dBm,+12V DC,Without Heatsink	Rev.1.1

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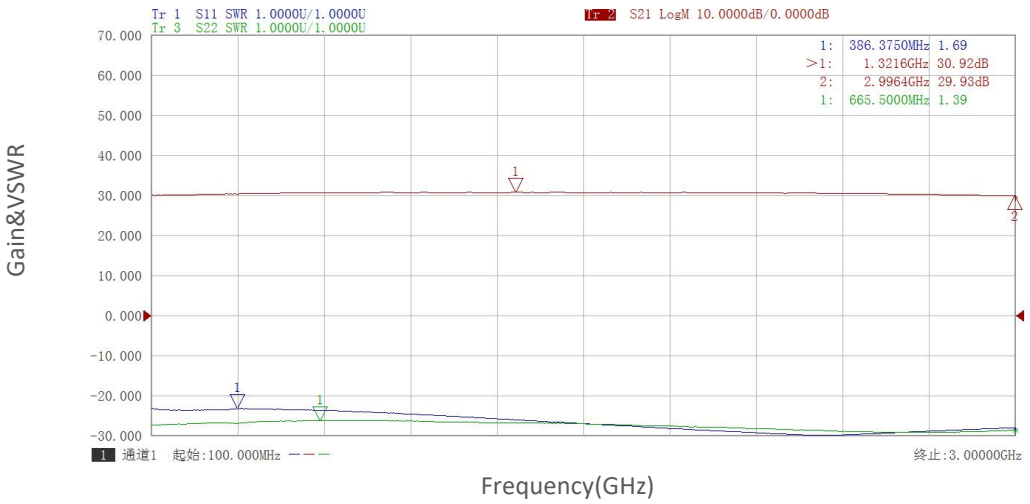
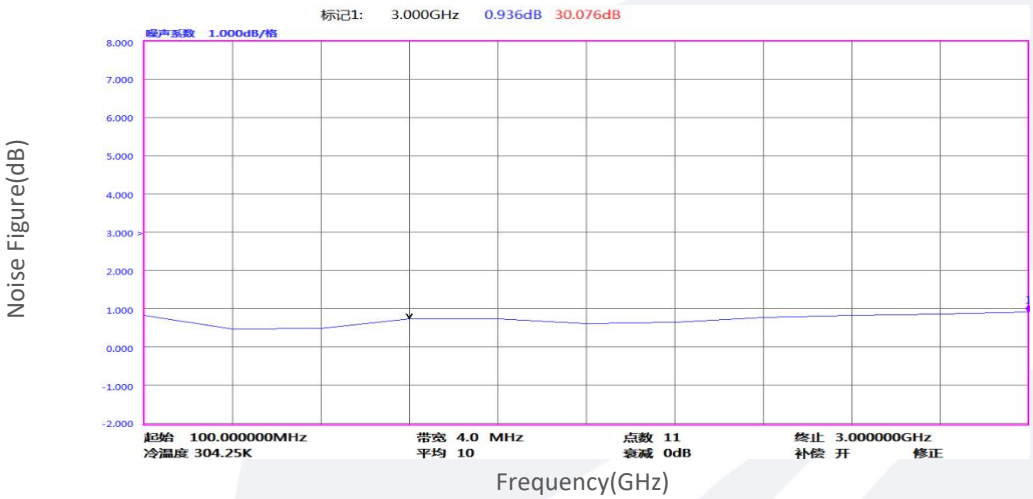
Typical Performance Data:

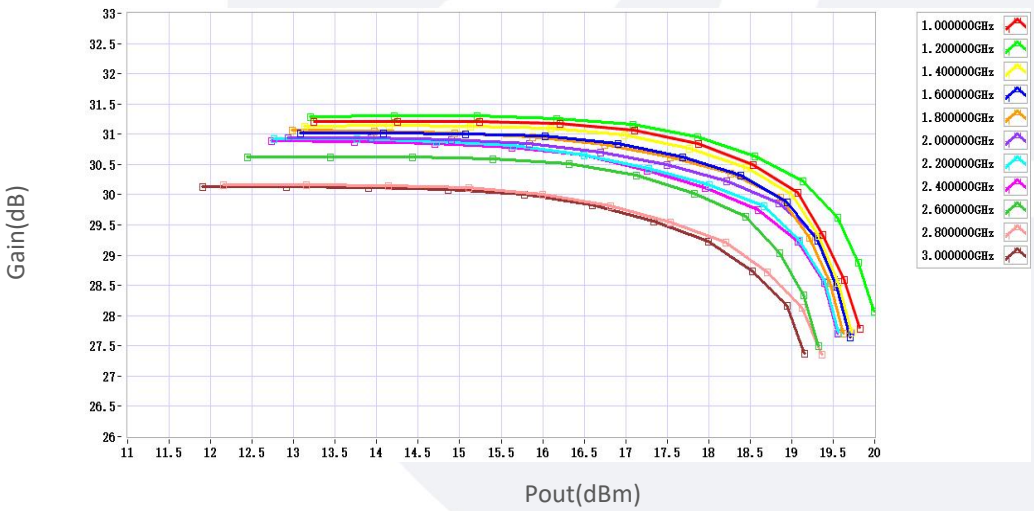
Gain&VSWR vs Frequency



Noise Figure vs Frequency



Gain vs Output Power



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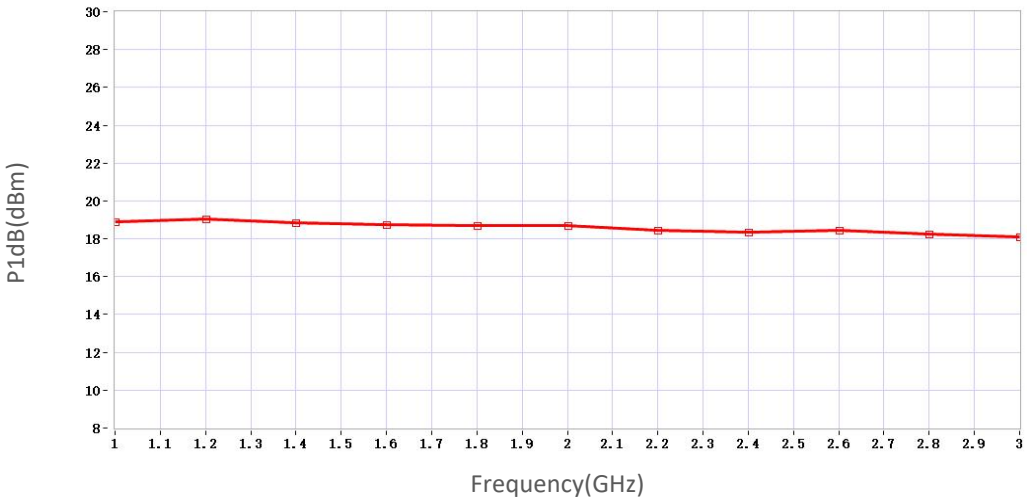
Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency