泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Model:TLLA0.03G6G-38-20

Low Noise Amplifier
0.03-6GHz, NF:2dB, Gain:38dB,P1dB:13dBm

Feature:

- Ultra Wide Band: 0.03-6GHz
- Gain: 38dB Typ
- Noise Figure: 2dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter		Min	Typ	Max	Units
Frequency range			0.03-6		GHz
Gain			38		dB
Gain Flatness			±2.5		dB
Noise Figure	@30~100MHz		3.0		dB
	@0.1~6GHz			2.0	dB
Output P1dB		13	15		dBm
Input VSWR			2.0	2.2	:1
Output VSWR			2.0	2.2	:1
DC Voltage		+8	+12	+15	V DC
DC Supply Current			80		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	/	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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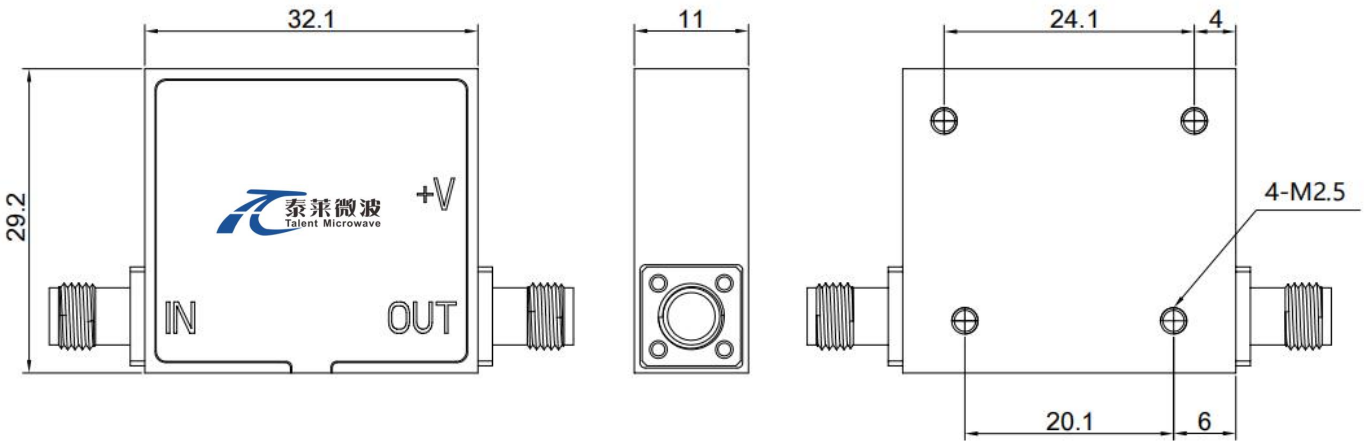
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

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			

Ordering Information:

Part Number	Description	Revision
TLLA0.03G6G-38-20	Low Noise Amplifier, 0.03-6GHz, Noise Figure:2 dB, Gain:38 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.03G6G-38-20-HS	Low Noise Amplifier, 0.03-6GHz, Noise Figure:2 dB, Gain:38 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1

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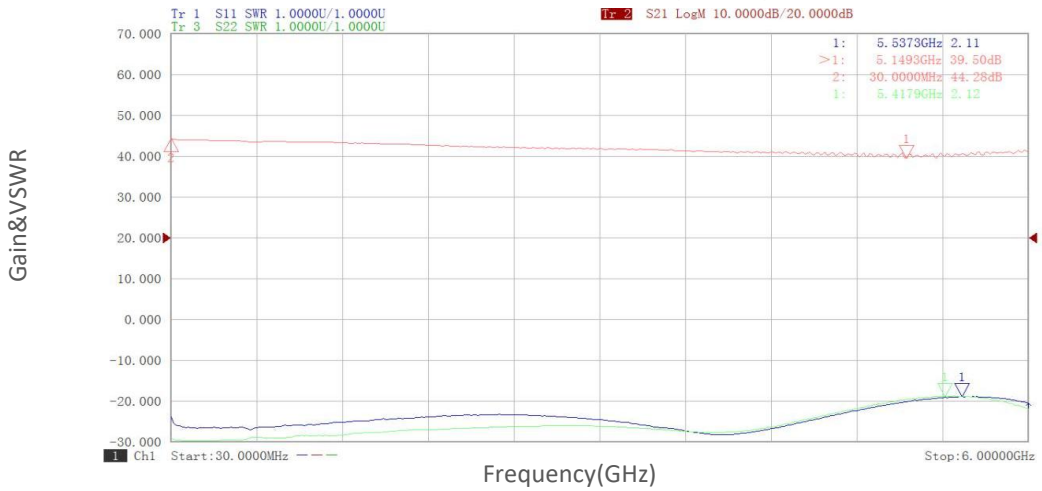
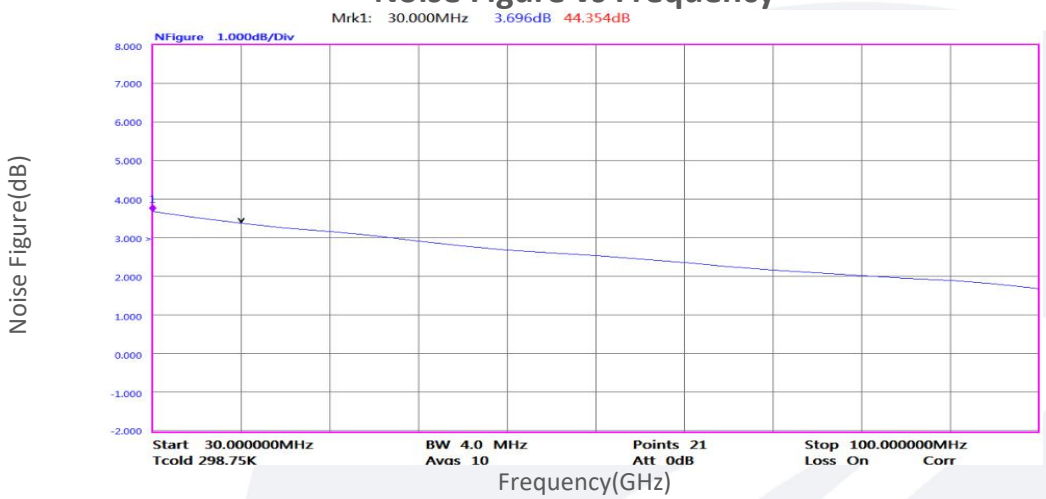
Typical Performance Data:

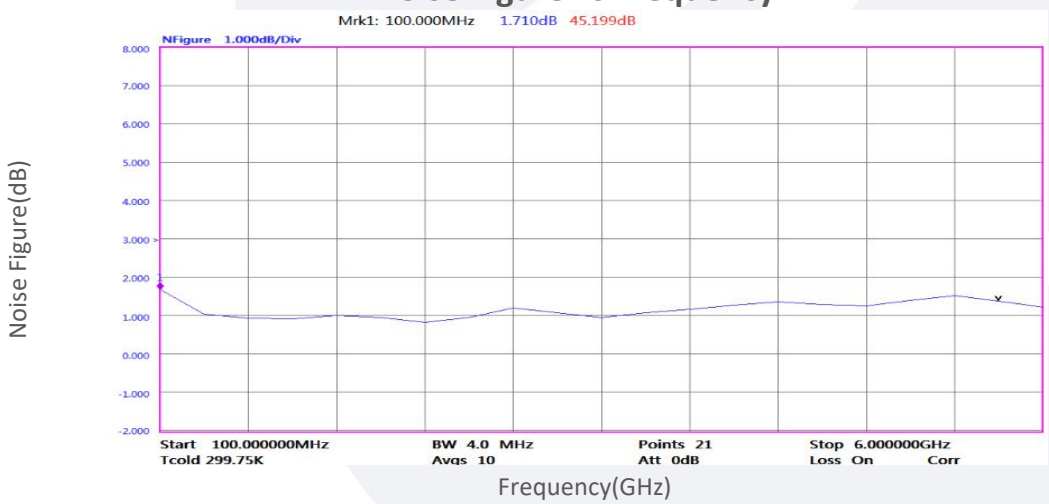
Gain&VSWR vs Frequency



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.

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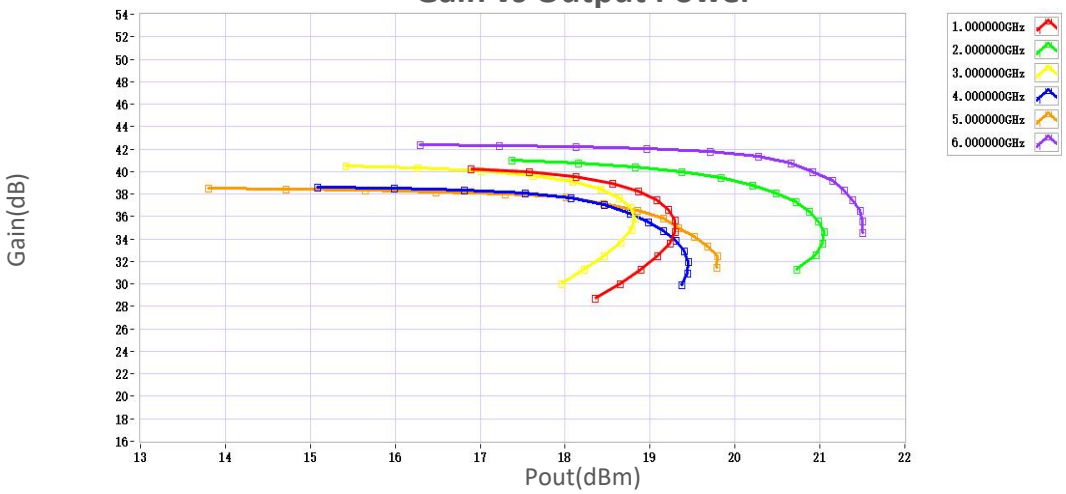
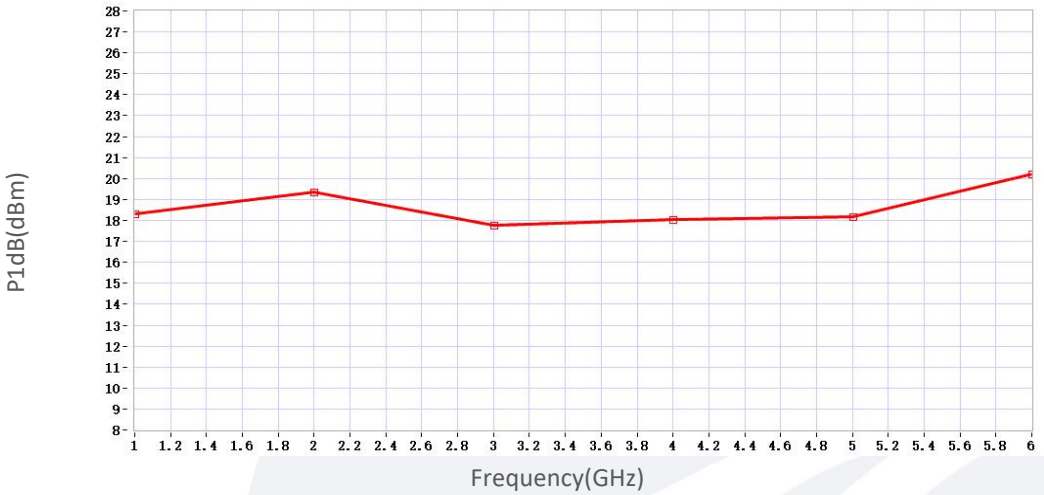
Typical Performance Data:

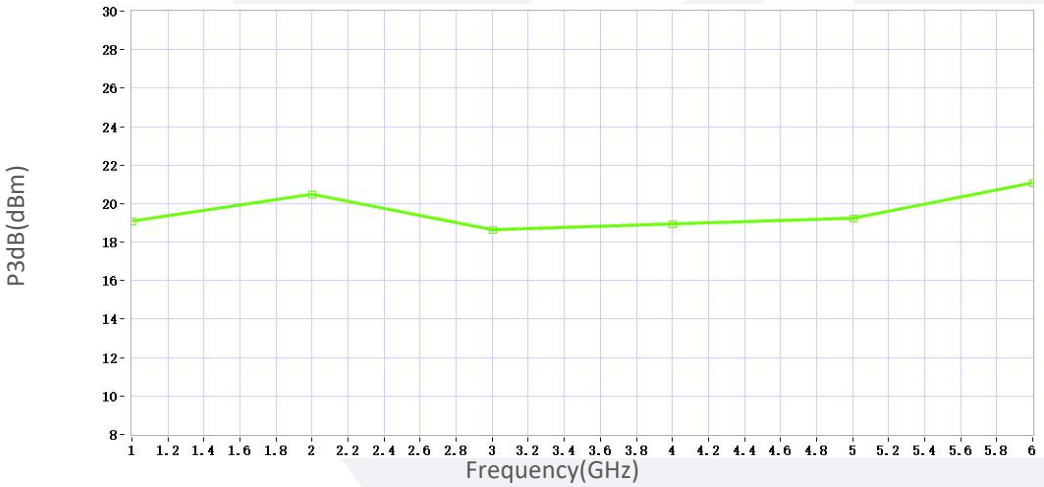
Gain vs Output Power



P1dB vs Frequency



P3dB vs Frequency



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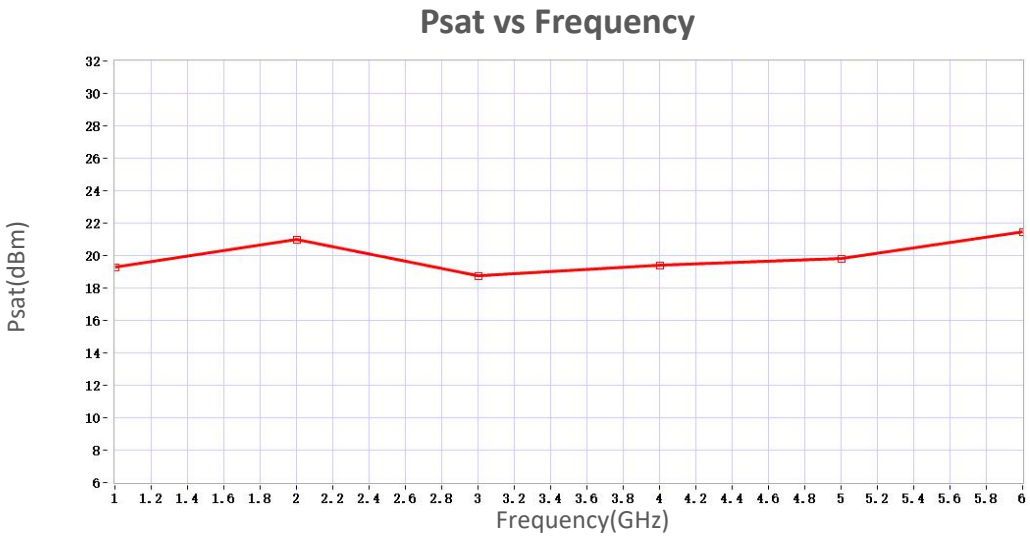

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