泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Low Noise Amplifier

6-26.5GHz/2dB NF/18dB Gain/13dBm P1dB Model: TLLA6G26.5G-18-20

TLLA6G26.5G-18-20 is a low noise amplifier with a typical small signal gain of 18dB and a nominal noise figure of 2dB across the frequency range of 6 to 26.5GHz. The DC power requirement for the amplifier is +8 V DC/64 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range:6-26.5GHz
- Gain: 18dB Typ
- Noise Figure: 2dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	6		26.5	GHz
小信号增益 Small Signal Gain		18		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure		2	3	dB
线性输出功率 Output P1dB		13		dBm
饱和输出功率 Output Psat		15		dBm
输入驻波 Input VSWR		2.2		:1
输出驻波 Output VSWR		2.2		:1
直流电压 DC Voltage	6	8	14	V DC
直流电流 DC Supply Current		64		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm
重量 Weight	50	g

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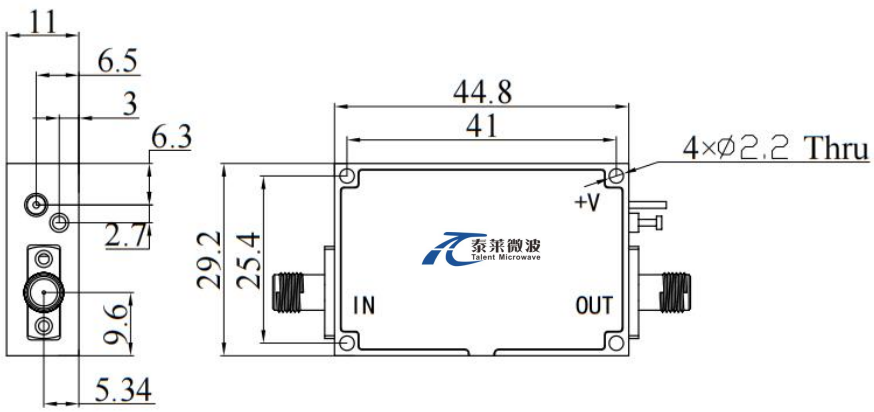
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+14 V
输入功率 RF Input Power	+15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

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

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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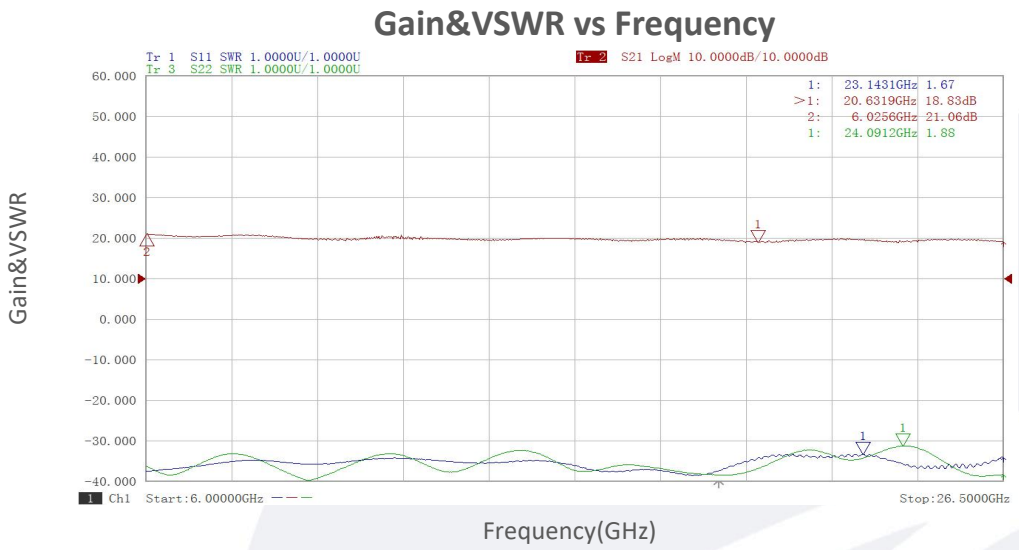
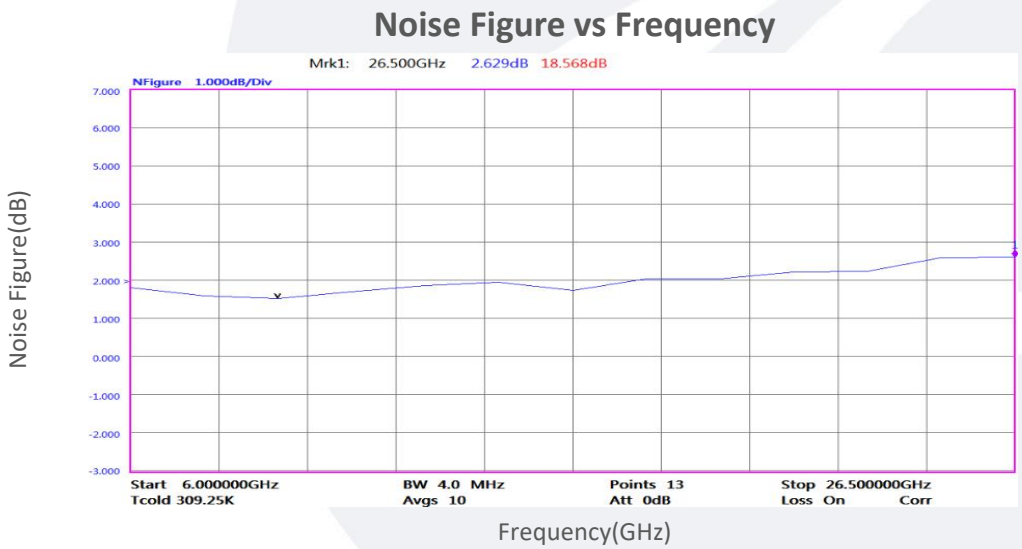
订货信息 Ordering Information:

标准型号 Base Number	描述 Desciption	版本号 Revision
TLLA6G26.5G-18-20	Low Noise Amplifier, 6-26.5GHz, Noise Figure:2.0dB, Gain:18 dB,P1dB:13dBm,+8V DC,Without Heatsink	Rev.1.1
TLLA6G26.5G-18-20-HS	Low Noise Amplifier, 6-26.5GHz, Noise Figure:2.0dB, Gain:18 dB,P1dB:13dBm,+8V DC,With Heatsink	Rev.1.1

典型曲线 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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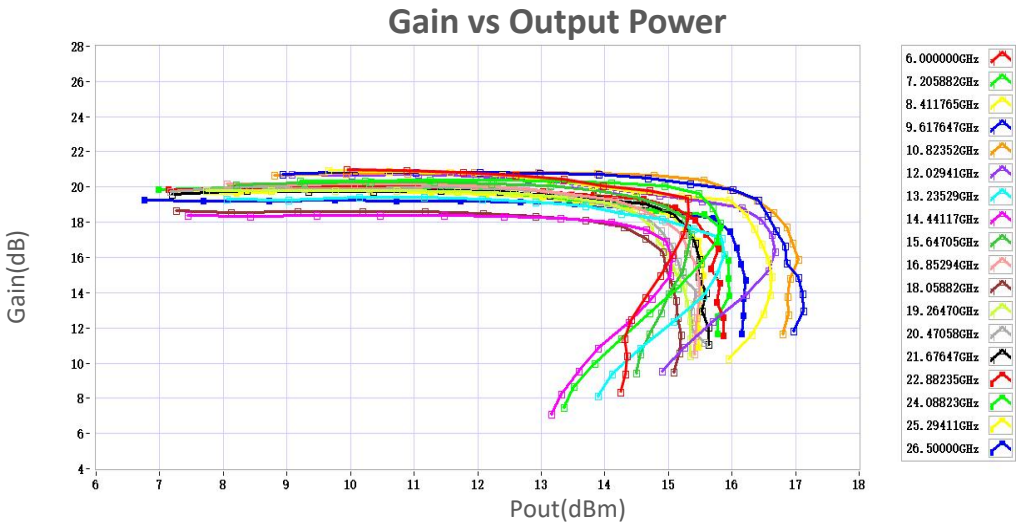

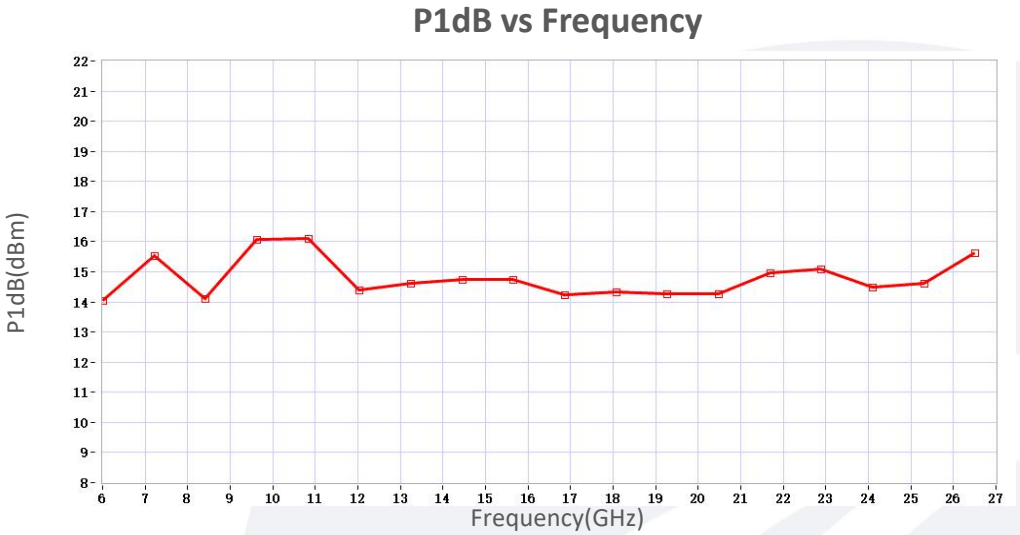

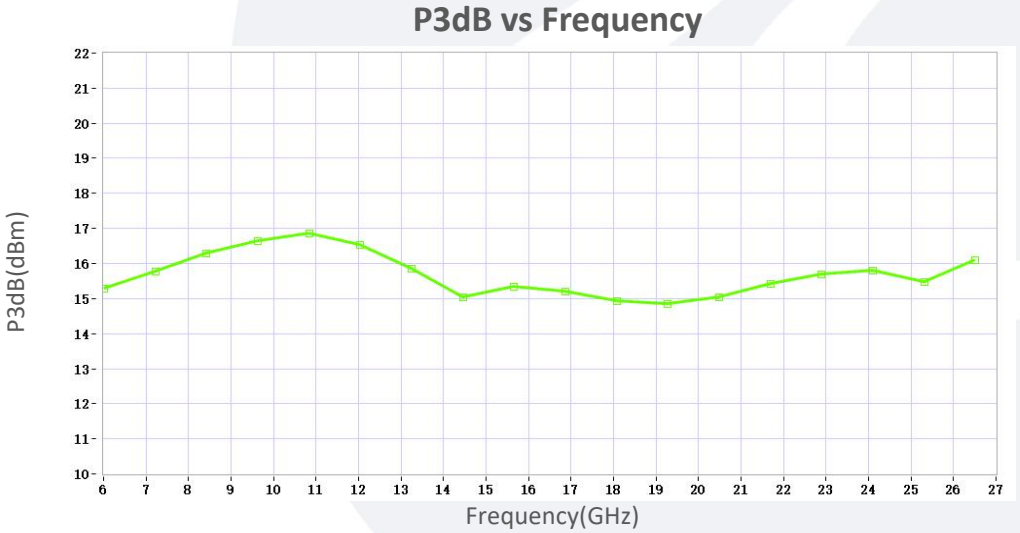

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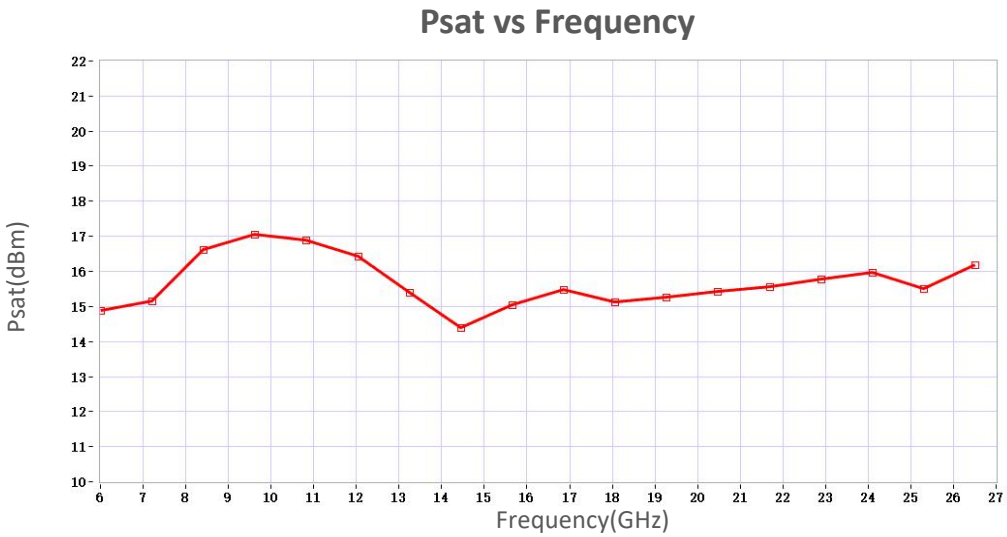

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