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TURLA6G18G-3920 is a low noise amplifier with a minimum small signal gain of 39 dB and a maximum noise figure of 2.0 dB across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +12 V DC/100 mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 6-18GHz
- Gain: 39dB Min
- Noise Figure: 2.0dB Max
- 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		18	GHz
小信号增益 Small Signal Gain	39	42		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure			2	dB
线性输出功率 Output P1dB	20			dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current			100	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	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	

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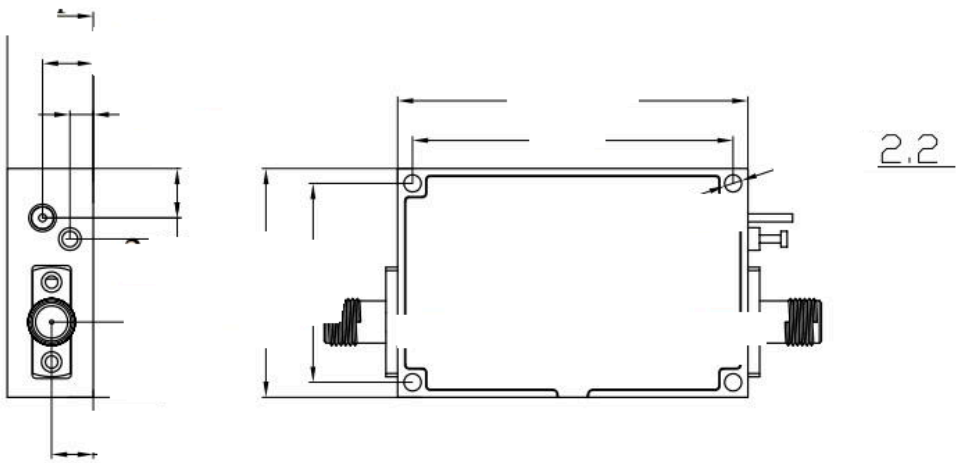
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15V
输入功率 RF Input Power	+18 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm



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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		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			

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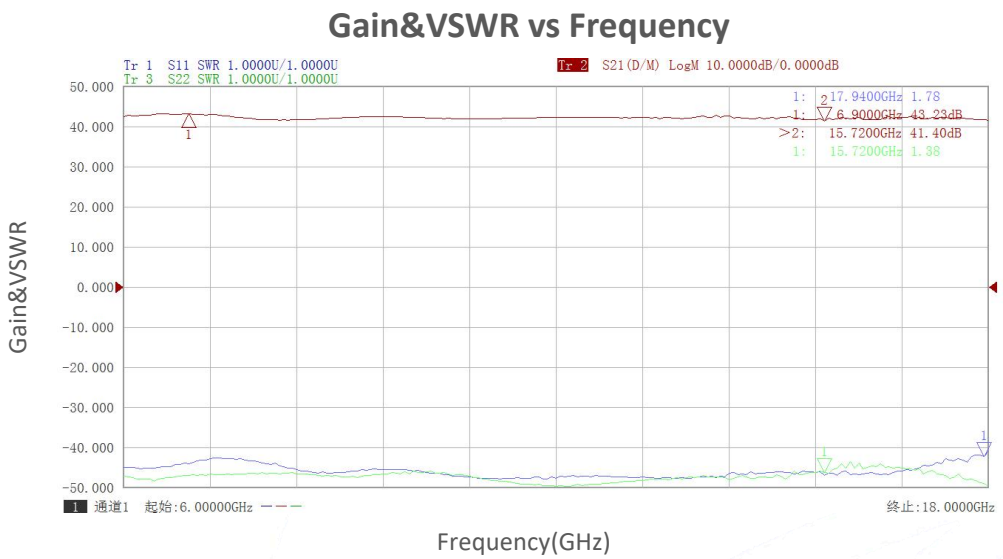
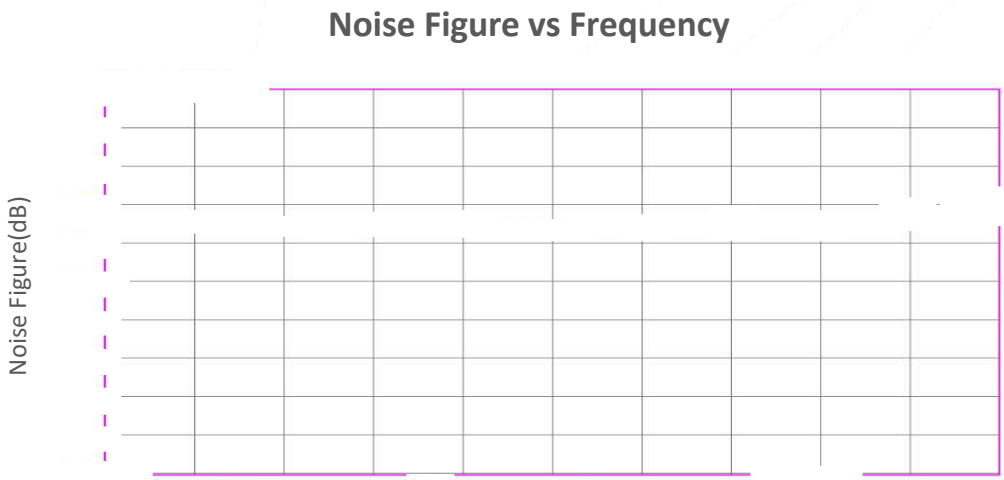
订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA6G18G-3920	Low Noise Amplifier, 6-18GHz, Noise Figure:2.0dB, Gain:39dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA6G18G-3920 HS	Low Noise Amplifier, 6-18GHz, Noise Figure:2.0dB, Gain:39dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:





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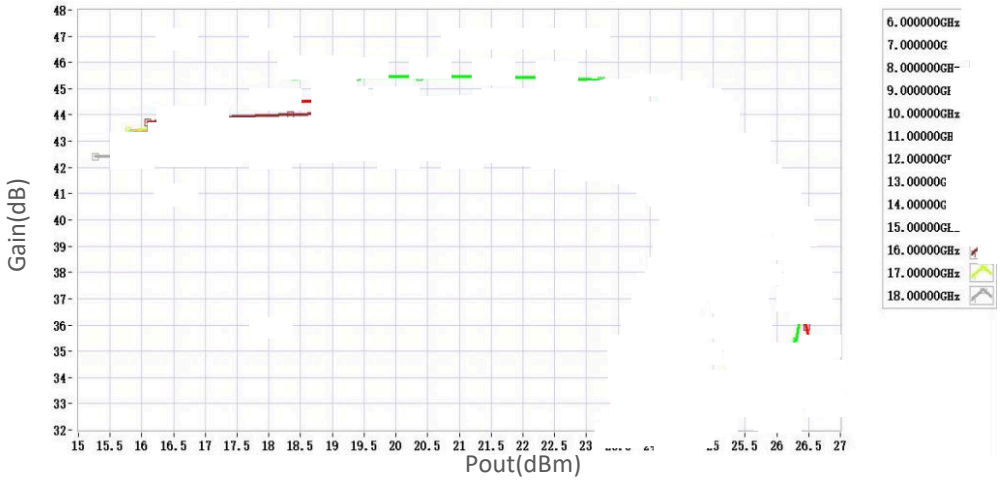
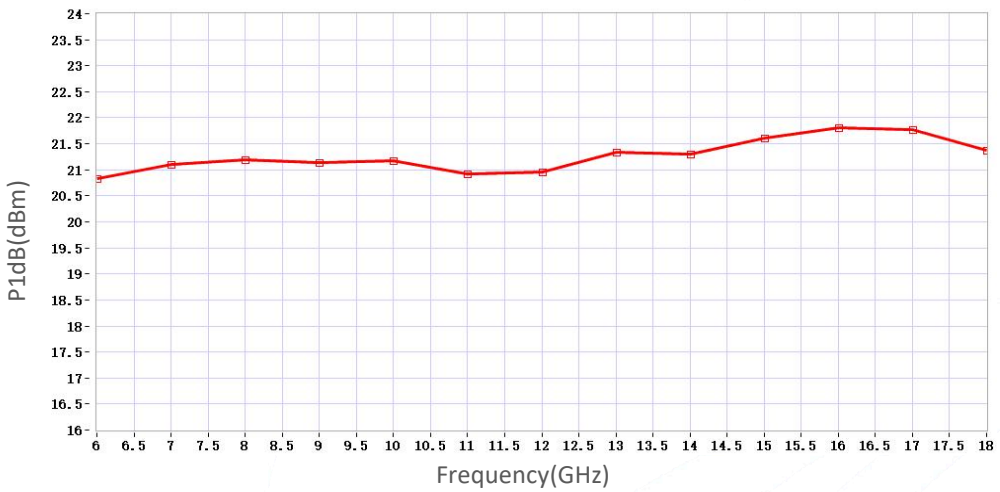
典型曲线 Typical Performance Data:

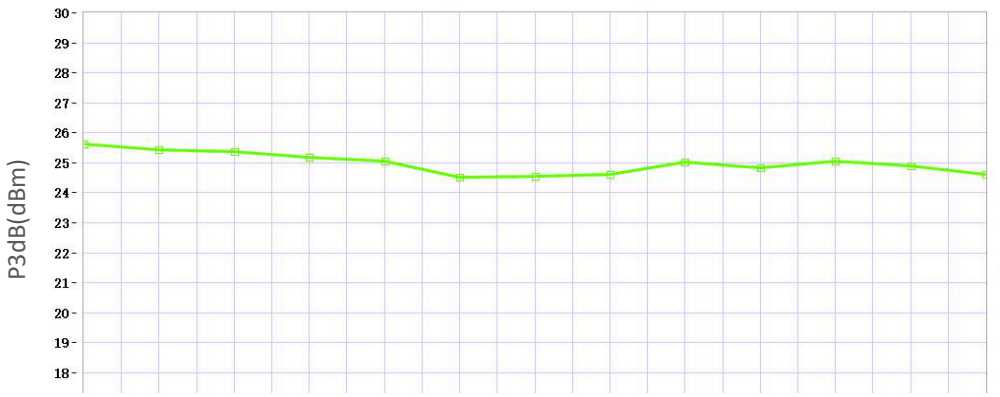
Gain vs Output Power



P1dB vs Frequency



P3dB vs Frequency



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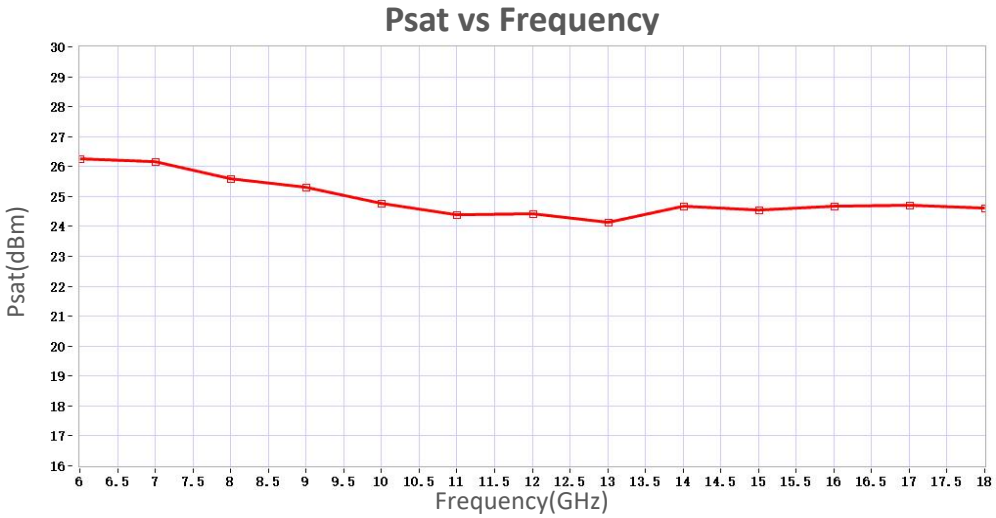
典型曲线 Typical Performance Data:



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.