

TURLA5G11G-1930

TURLA5G11G-1930 is a low noise amplifier with a typical small signal gain of 19 dB and a nominal noise figure of 2.5 dB across the frequency range of 5 to 11 GHz. The DC power requirement for the amplifier is +8 V DC/80 mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 5-11GHz
- Gain: 19dB Typ
- Noise Figure: 2.5dB 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	5		11	GHz
小信号增益 Small Signal Gain		19		dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure		2.5		dB
线性输出功率 Output P1dB		16		dBm
输入驻波 Input VSWR		1.7		:1
输出驻波 Output VSWR		1.5		:1
直流电压 DC Voltage		+8	+12	V DC
直流电流 DC Supply Current		80		mA
阻抗 Impedance		50		Ohms

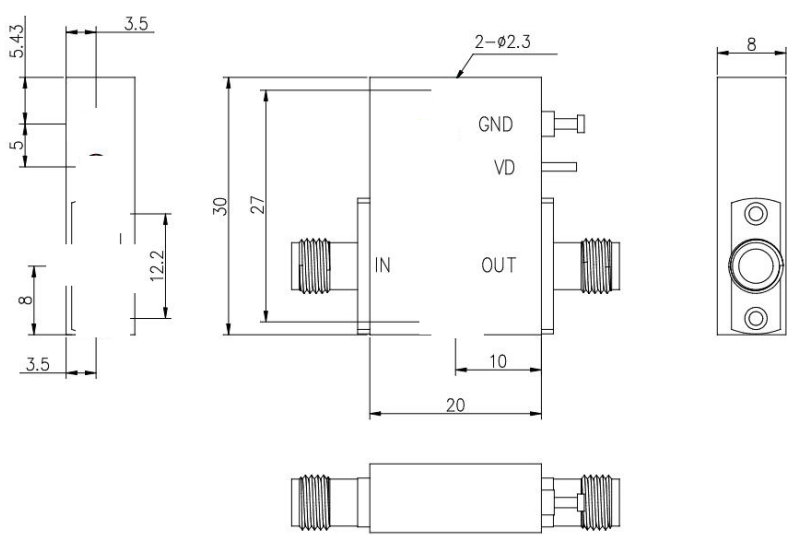
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12 V
输入功率 RF Input Power	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm





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

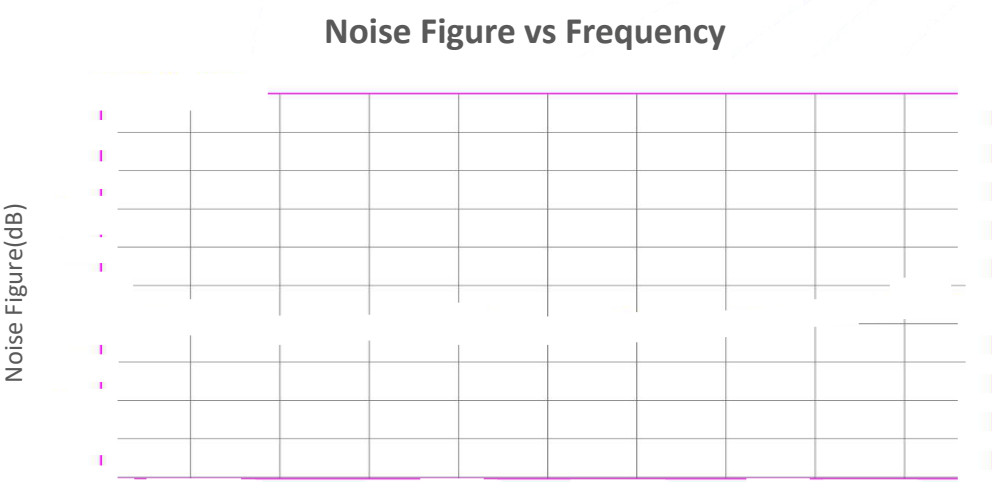
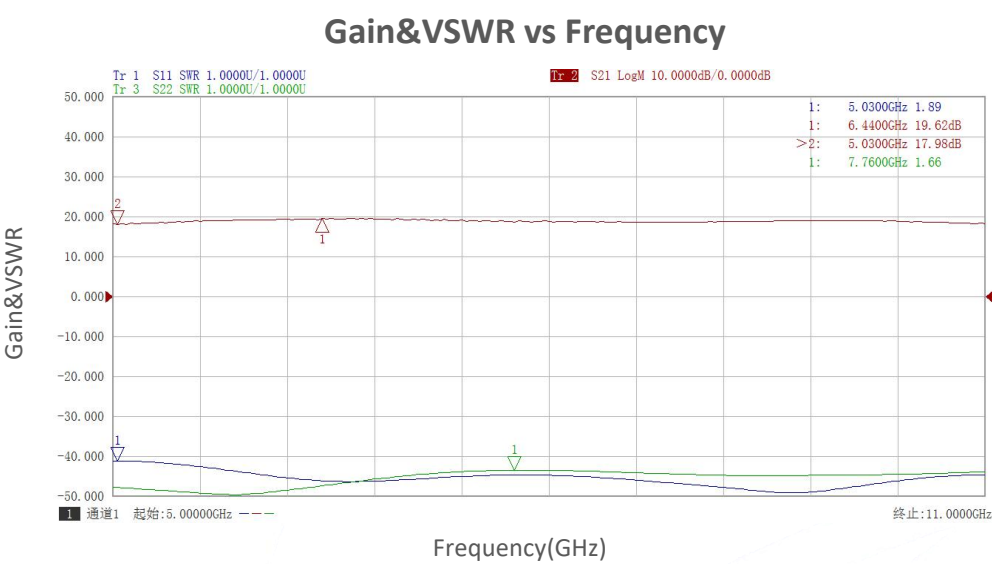
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
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			

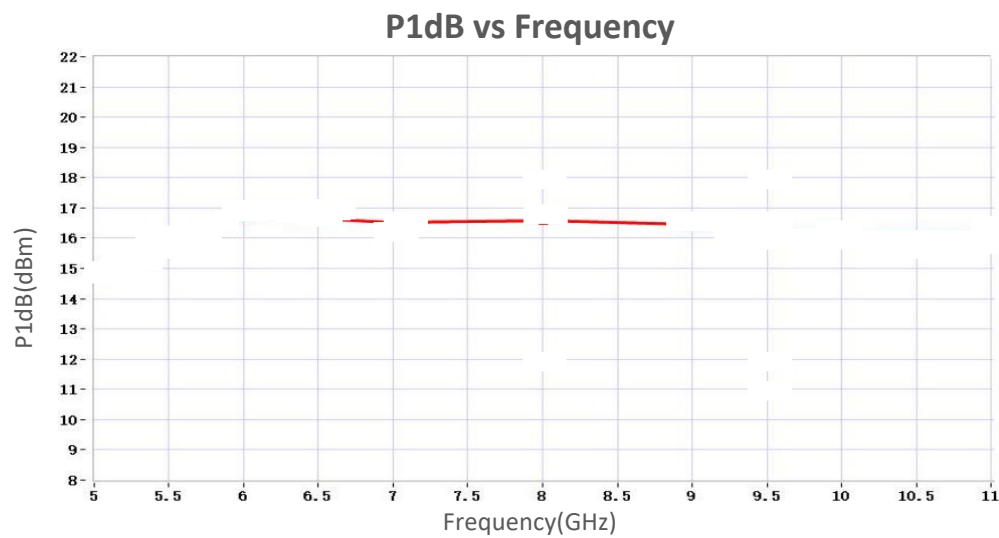
订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA5G11G-1930	Low Noise Amplifier, 5-11GHz, Noise Figure:2.5dB, Gain:19dB,P1dB:16dBm,+8V DC,Without Heatsink	Rev.1.1
TURLA5G11G-1930 HS	Low Noise Amplifier, 5-11GHz, Noise Figure:2.5dB, Gain:19dB,P1dB:16dBm,+8V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:



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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.