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TURLA50K43G-3050 is a low noise amplifier with a typical small signal gain of 30 dB and a nominal noise figure of 5 dB across the frequency range of 50 KHz to 43 GHz. The DC power requirement for the amplifier is +12 V DC/350 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 50KHz-43GHz
- Gain: 30dB Typ
- Noise Figure: 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	50KHz-43GHz			
小信号增益 Small Signal Gain	23	30		dB
噪声系数 Noise Figure		5		dB
线性输出功率 Output P1dB		16		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		350		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	

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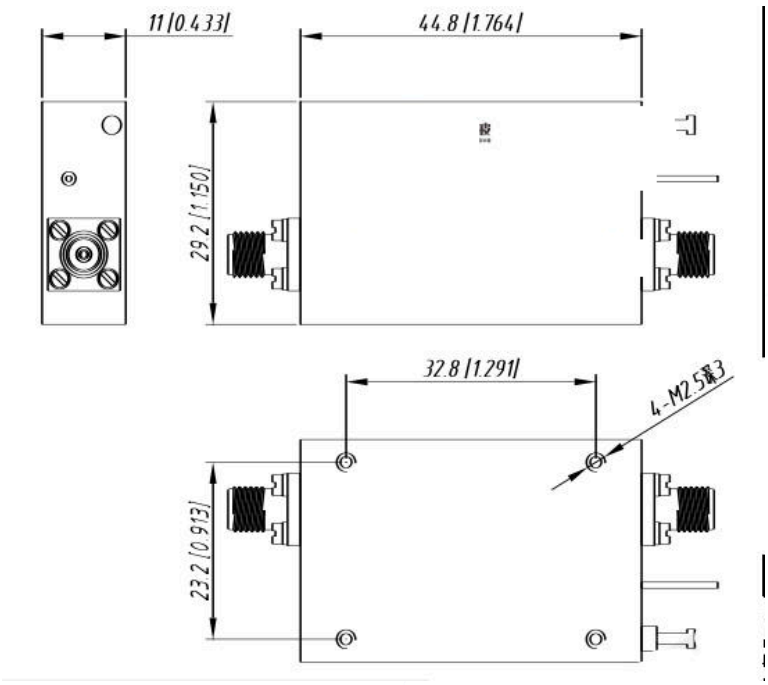
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+10 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	-40		+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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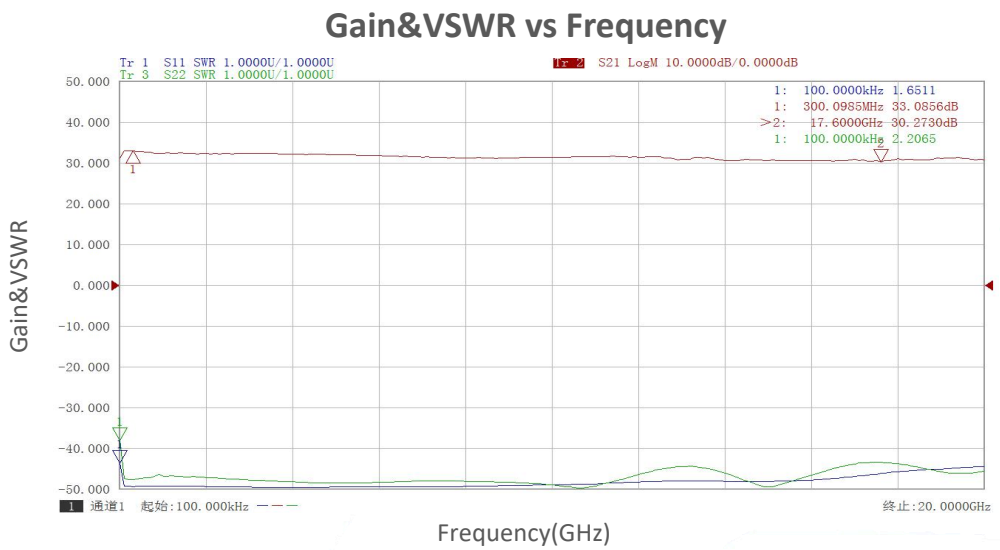
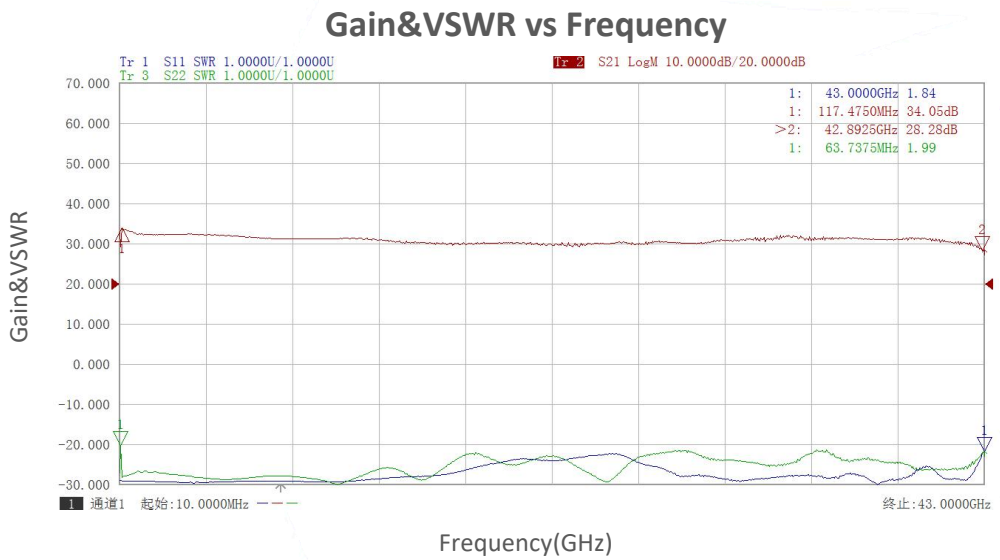
订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA50K43G-3050	Low Noise Amplifier, 50KHz-43GHz, Noise Figure: 5.0dB, Gain:30 dB,P1dB:16dBm, +12V DC, Without Heatsink	Rev.1.1
TURLA50K43G-3050 HS	Low Noise Amplifier, 50KHz-43GHz, Noise Figure: 5.0dB, Gain:30 dB,P1dB:16dBm, +12V 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

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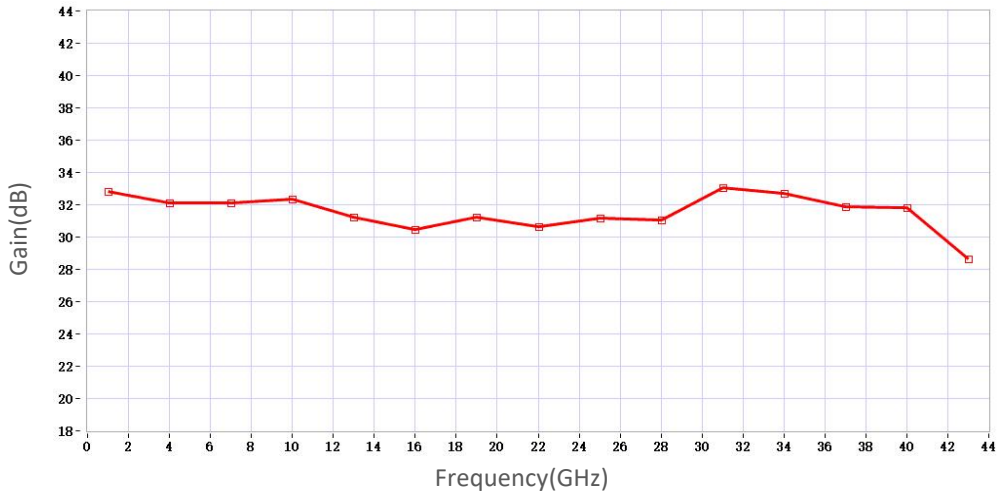
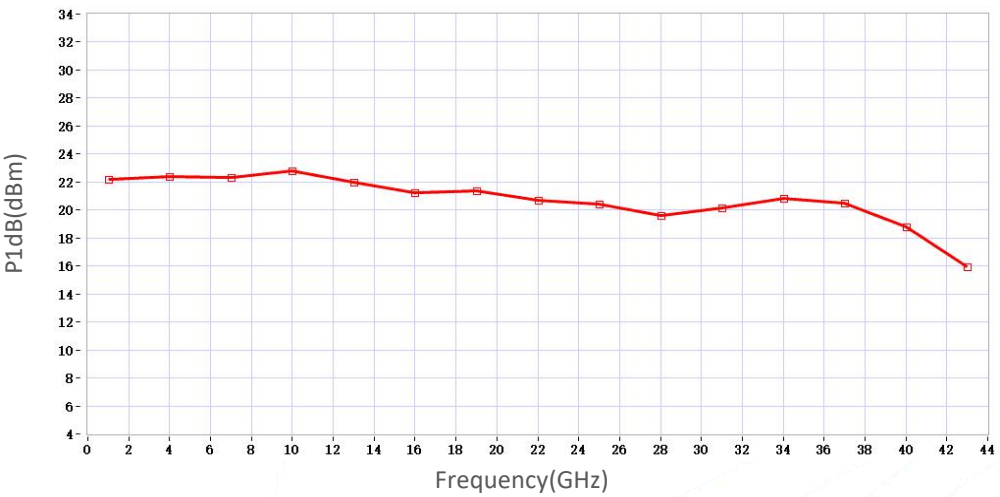
典型曲线 Typical Performance Data:

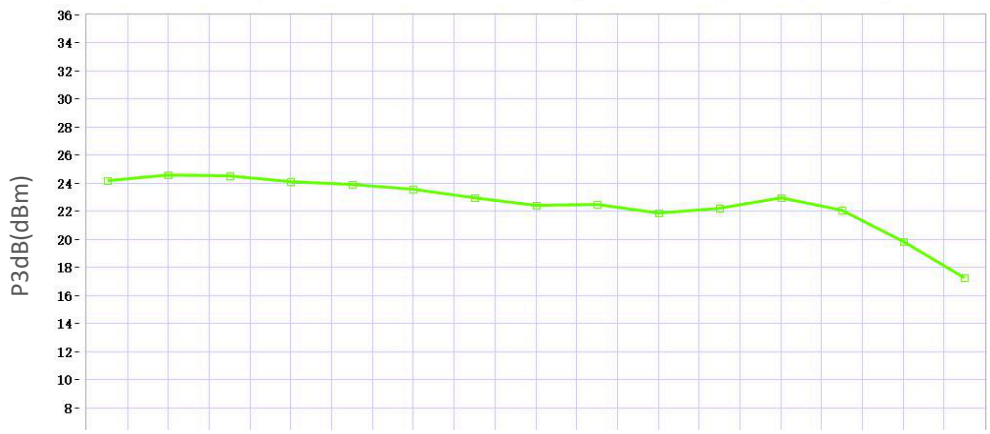
Gain vs Frequency



P1dB vs Frequency



P3dB vs Frequency



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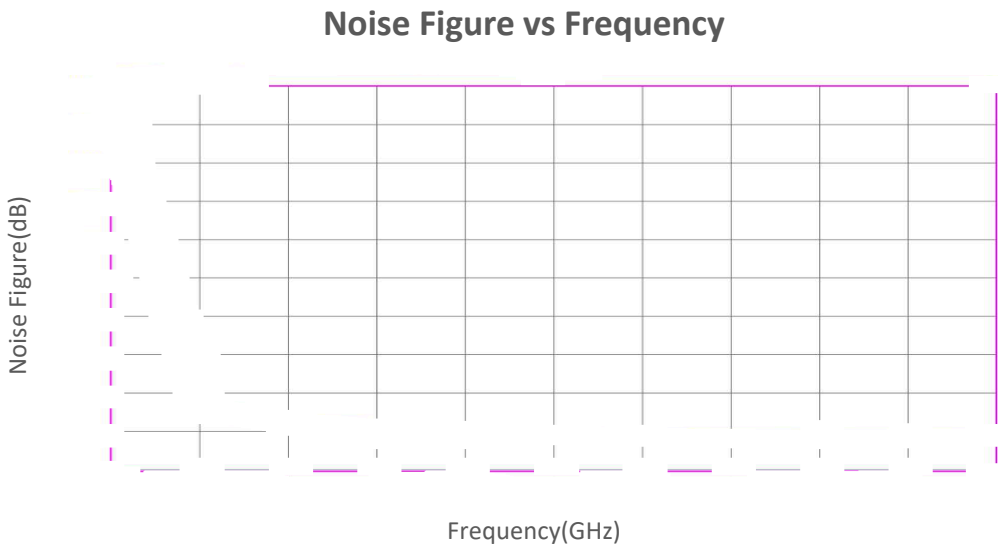
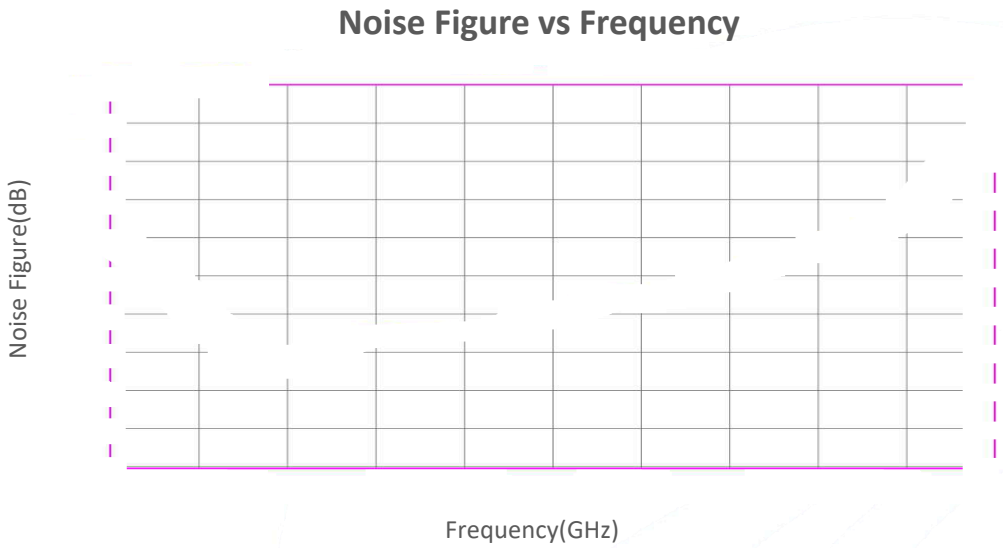
典型曲线 Typical Performance Data:





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.