

TURLA40G50G-5035

TURLA40G50G-5035 is a low noise amplifier with a typical small signal gain of 53 dB and a maximum noise figure of 3.5 dB across the frequency range of 40 to 50 GHz. The DC power requirement for the amplifier is +12 V DC/270 mA. The input and output port configuration offers coax adapter structure with 2.4mm female.

Features:

- Frequency range: 40-50GHz
- Gain: 53dB Typ
- Noise Figure: 3.5dB 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	40		50	GHz
小信号增益 Small Signal Gain	50	53		dB
增益平坦度 Gain Flatness		±4		dB
噪声系数 Noise Figure		3	3.5	dB
线性输出功率 Output P1dB		20		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage	+8	+12		V DC
直流电流 DC Supply Current	180	270		mA
阻抗 Impedance	50			Ohms

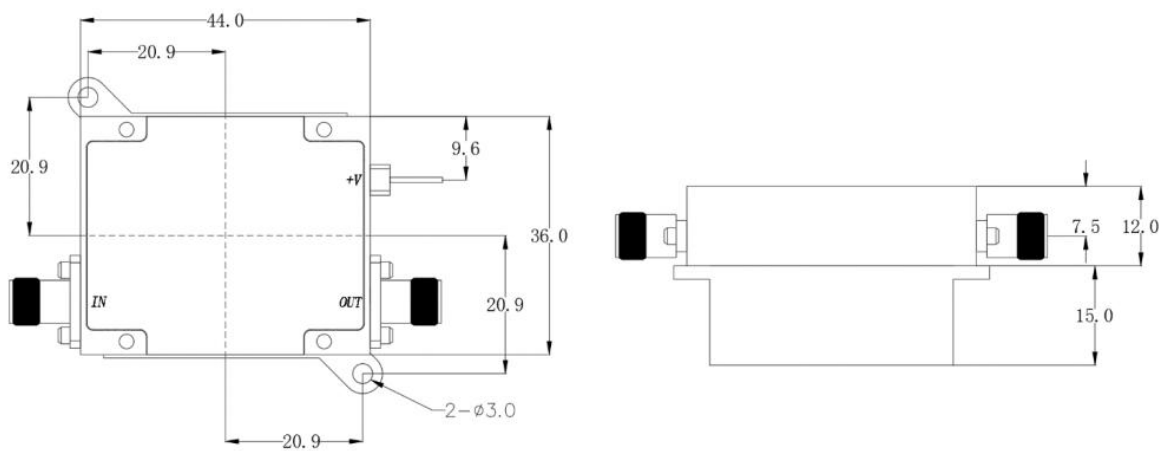
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13 V
输入功率 RF Input Power	+5 dBm
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.

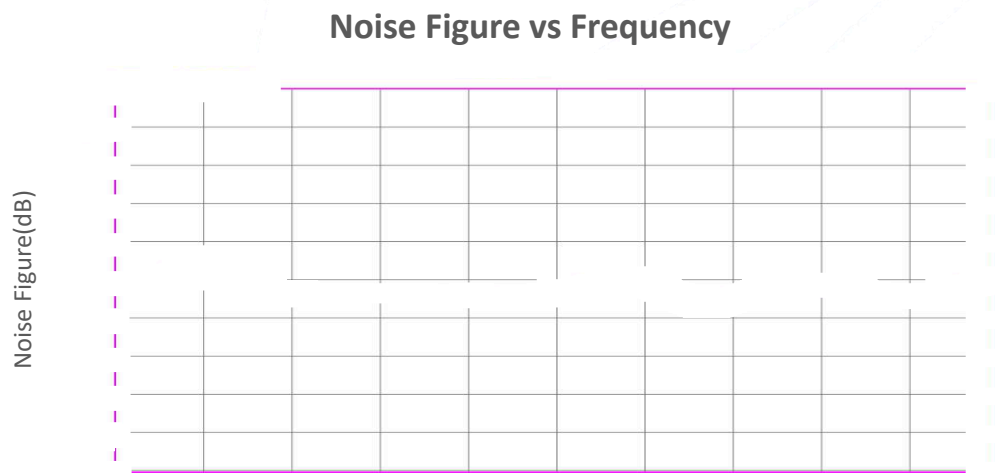
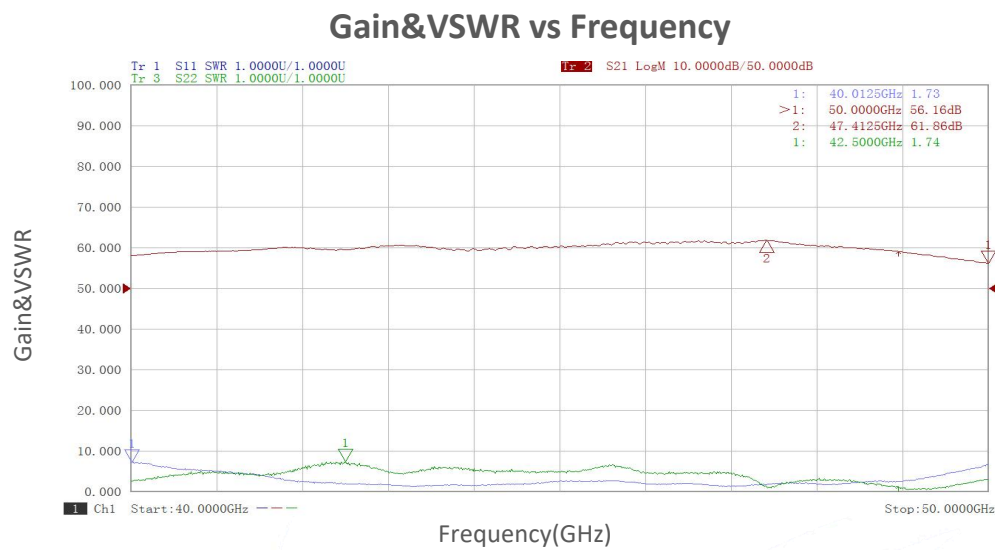
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-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			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA40G50G-5035	Low Noise Amplifier, 40-50GHz, Noise Figure:3.5dB, Gain:50 dB,P1dB:20dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA40G50G-5035 HS	Low Noise Amplifier, 40-50GHz, Noise Figure:3.5dB, Gain:50 dB,P1dB:20dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:



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