

TURLA18G40G-3630

TURLA18G40G-3630 is a low noise amplifier with a typical small signal gain of 36 dB and a maximum noise figure of 3.0 dB across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +12 V DC/80 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 18-40GHz
- Gain: 36dB Typ
- Noise Figure: 3.0dB 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	18		40	GHz
小信号增益 Small Signal Gain		36		dB
增益平坦度 Gain Flatness			±2.5	dB
噪声系数 Noise Figure			3.0	dB
线性输出功率 Output P1dB		15		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR			2.2	:1
输出驻波 Output VSWR			2.2	:1
直流电压 DC Voltage	+8	+12	+15	V DC
直流电流 DC Supply Current		80		mA
阻抗 Impedance	50			Ohms

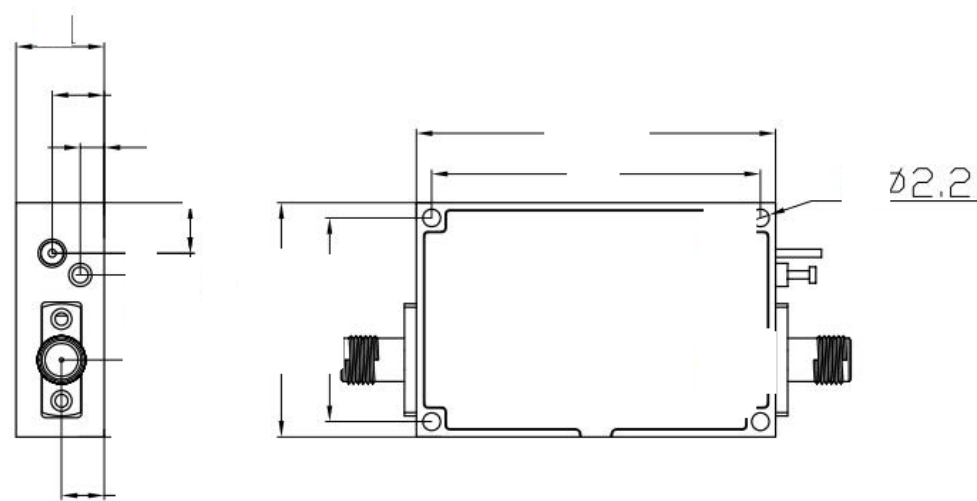
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mmFemale	
直流偏置 DC Bias	Solder Pin	

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	+15 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:

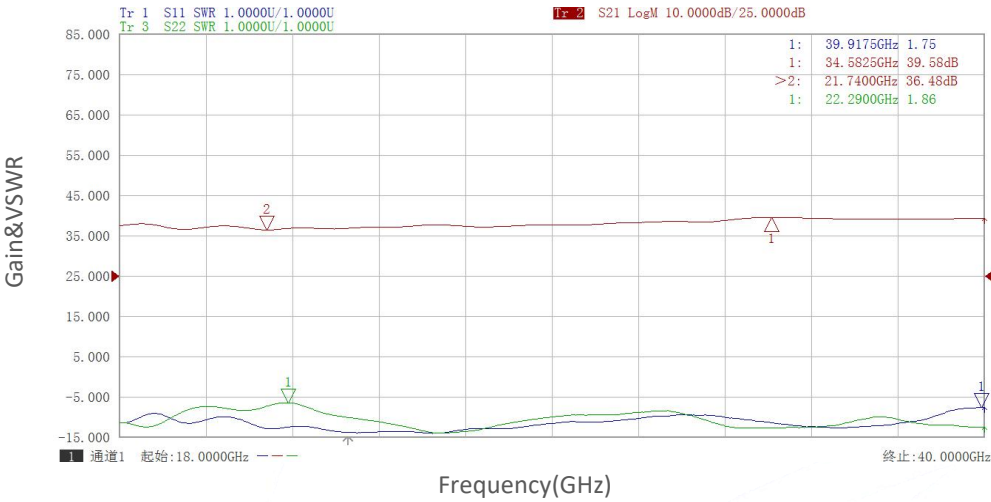
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			

订货信息 Ordering Information:

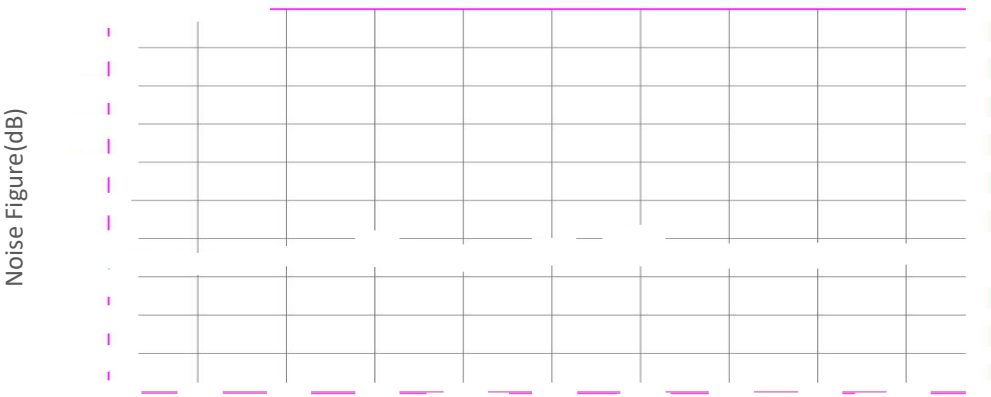
标准型号 Base Number	描述 Description	版本号 Revision
TURLA18G40G-3630	Low Noise Amplifier, 18-40GHz, Noise Figure:3.0dB, Gain:36dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA18G40G-3630 HS	Low Noise Amplifier, 18-40GHz, Noise Figure:3.0dB, Gain:36dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain&VSWR vs Frequency



Noise Figure vs Frequency



典型曲线 Typical Performance Data:

