

TURLA0.01G50G-3360

TURLA0.01G50G-3360 is a low noise amplifier with a typical small signal gain of 32 dB and a nominal noise figure of 6.0 dB across the frequency range of 0.01 to 50 GHz. The DC power requirement for the amplifier is +12 V DC/400 mA. The input and output port configuration offers coax adapter structure with 2.4mm female.

Features:

- Frequency range: 0.01-50GHz
- Gain: 32dB Typ
- Noise Figure: 6.0dB 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	0.01		50	GHz
小信号增益 Small Signal Gain		32		dB
增益平坦度 Gain Flatness		±3.5		dB
噪声系数 Noise Figure		6.0		dB
线性输出功率 Output P1dB		19		dBm
输出三阶交调 Output IP3		30		dBm
输入驻波 Input VSWR		1.9		:1
输出驻波 Output VSWR		1.9		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		400		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

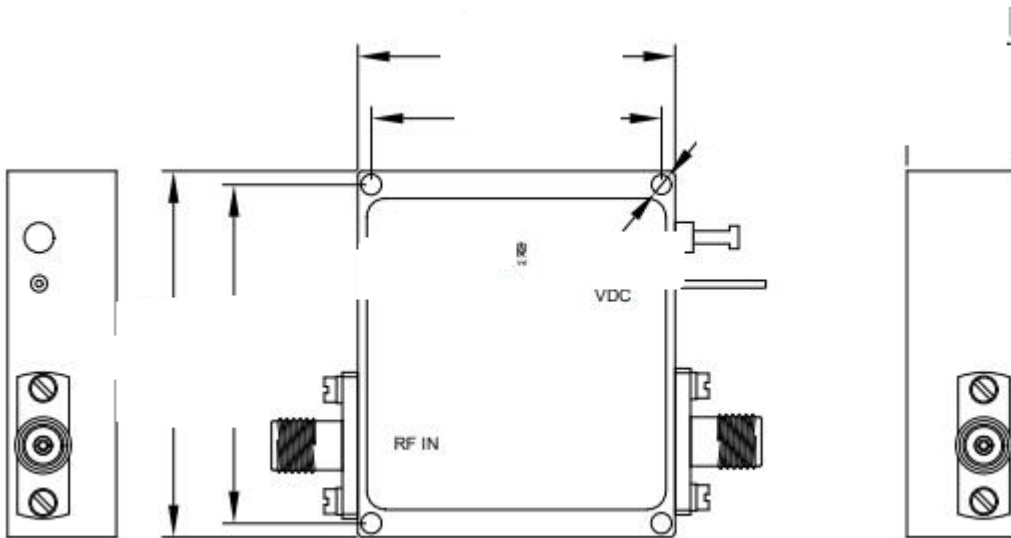
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	
直流偏置 DC Bias	Solder Pin	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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		+75	°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
TURLA0.01G50G-3360	Low Noise Amplifier, 0.01-50GHz, Noise Figure:6.0dB, Gain:32 dB,P1dB: 19dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA0.01G50G-3360 HS	Low Noise Amplifier, 0.01-50GHz, Noise Figure:6.0dB, Gain:32 dB,P1dB: 19dBm,+12V DC,With Heatsink	Rev.1.1