

TURLA0.4G50G-4060

TURLA0.4G50G-4060 is a low noise amplifier with a typical small signal gain of 40 dB and a nominal noise figure of 6.0 dB across the frequency range of 0.4 to 50 GHz. The DC power requirement for the amplifier is +12 V DC/500 mA. The input and output port configuration offers coax adapter structure with 2.4mm female.

Features:

- Frequency range: 0.4-50GHz
- Gain: 40dB 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	0.4		50	GHz
小信号增益 Small Signal Gain		40		dB
增益平坦度 Gain Flatness		±2.5	±4	dB
噪声系数 Noise Figure		6.0		dB
线性输出功率 Output P1dB		18		dBm
输出三阶交调 Output IP3		21		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		2	2.5	:1
输出驻波 Output VSWR		2	2.5	:1
直流电压 DC Voltage	+8	+12		V DC
直流电流 DC Supply Current		500		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

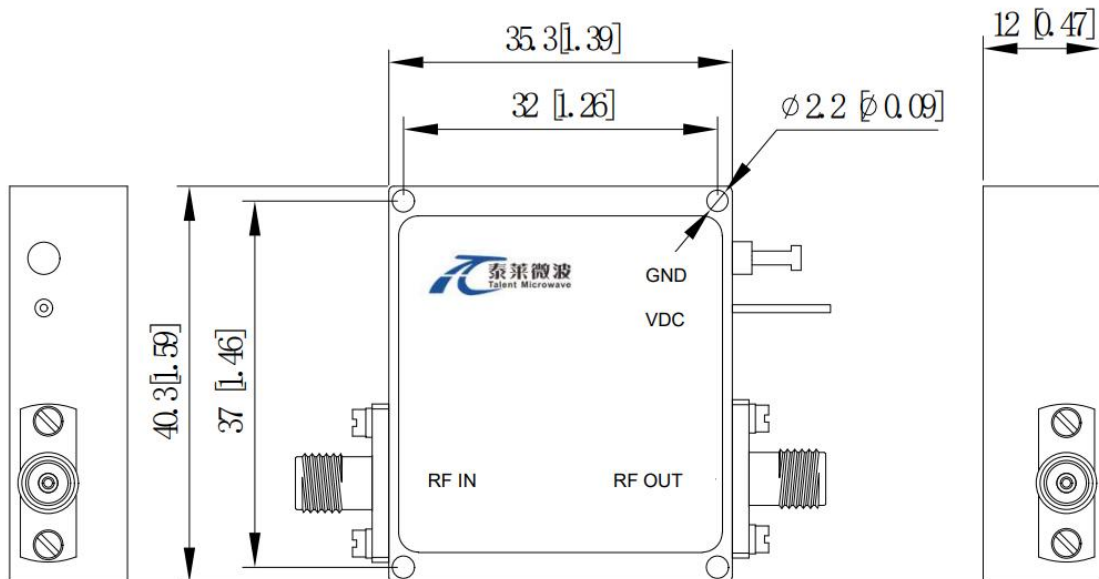
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	35.3*40.3*12	mm
重量 Weight	48	g

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	-15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



*****Heat Sink Required During Operation**



ESD Protection: Strictly adhere to ESD precautions

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+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			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA0.4G50G-4060	Low Noise Amplifier, 0.4-50GHz, Noise Figure:6.0dB, Gain: 40dB,P1dB:18dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA0.4G50G-4060 HS	Low Noise Amplifier, 0.4-50GHz, Noise Figure:6.0dB, Gain: 40dB,P1dB:18dBm,+12V DC,With Heatsink	Rev.1.1