

TURLA37G42G-2050

TURLA37G42G-2050 is a low noise amplifier with a minimum small signal gain of 20 dB and a maximum noise figure of 5.0 dB across the frequency range of 37 to 42 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: 37-42GHz
- Gain: 20dB Min
- Noise Figure: 5.0dB 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	37		42	GHz
小信号增益 Small Signal Gain	20			dB
噪声系数 Noise Figure			5	dB
线性输出功率 Output P1dB	15			dBm
杂散 Spurious			-50	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		+12		V DC
直流电流 DC Supply Current			500	mA
阻抗 Impedance	50			Ohms

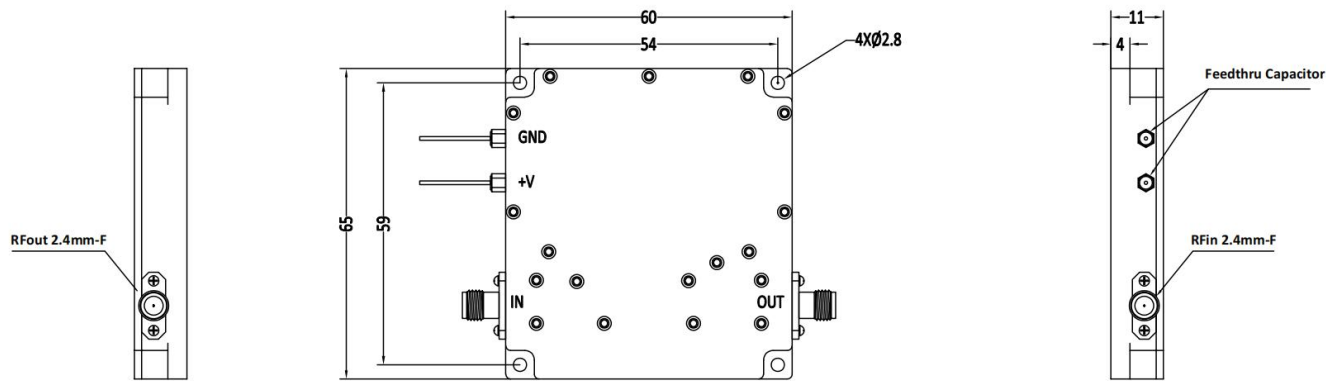
机械特性 Mechanical Specifications:

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	

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	0 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	-40		+60	°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
TURLA37G42G-2050	Low Noise Amplifier, 37-42GHz, Noise Figure:5.0dB, Gain:20 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA37G42G-2050 HS	Low Noise Amplifier, 37-42GHz, Noise Figure:5.0dB, Gain:20 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1