

TURLA18G40G-3060

TURLA18G40G-3060 is a low noise amplifier with a typical small signal gain of 30 dB and a maximum noise figure of 6.0 dB across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +12 V DC. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 18-40GHz
- Gain: 30dB Typ
- Noise Figure: 6.0dB 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		30		dB
增益平坦度 Gain Flatness		±4		dB
噪声系数 Noise Figure		3.5	6	dB
线性输出功率 Output P1dB	25			dBm
杂散 Spurious			-60	dBc
谐波 Harmonic			-15	dBc
输入驻波 Input VSWR		2		:1
直流电压 DC Voltage		+12		V DC
功耗 Power Consumption			7	W
阻抗 Impedance	50			Ohms

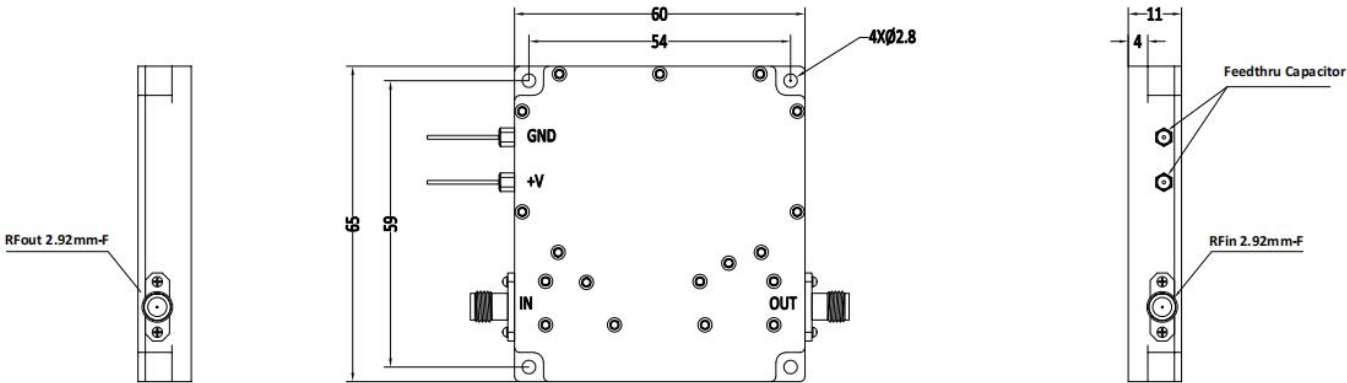
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	60*65*11	mm
重量 Weight	≤200	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12 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	-40		+60	℃
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			
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
TURLA18G40G-3060	Low Noise Amplifier, 18-40GHz, Noise Figure:6.0dB, Gain:30 dB,P1dB:25dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA18G40G-3060 HS	Low Noise Amplifier, 18-40GHz, Noise Figure:6.0dB, Gain:30 dB,P1dB:25dBm,+12V DC,With Heatsink	Rev.1.1