

TURLA1G18G-5525

TURLA1G18G-5525 is a low noise amplifier with a minimum small signal gain of 50 dB and a nominal noise figure of 3.0 dB across the frequency range of 1 to 18 GHz. The DC power requirement for the amplifier is +12 V DC. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range:1-18GHz
- Gain: 50dB Min
- Noise Figure: 3.0dB 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	1		18	GHz
小信号增益 Small Signal Gain	50			dB
增益平坦度 Gain Flatness		±3.0		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
谐波 Harmonics			-10	dBc
驻波 VSWR		2.0		:1
直流电压 DC Voltage		+12		V DC
功耗 Power Consumption		3		W
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

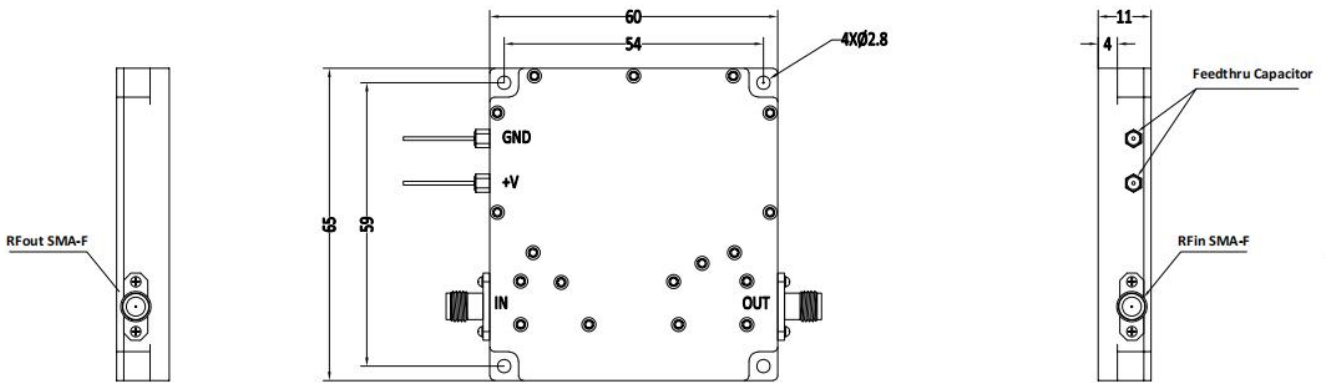
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias		

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	-30 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	°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
TURLA1G18G-5525	Low Noise Amplifier, 1-18GHz, Noise Figure:3.0dB, Gain:50 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA1G18G-5525 HS	Low Noise Amplifier, 1-18GHz, Noise Figure:3.0dB, Gain:50 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1