

Low Noise Amplifier

18-27GHz/2.8dB NF/52dB Gain/8dBm P1dB

TLLA18G27G-52-28

TURLA18G27G-5228 is a low noise amplifier with a minimum small signal gain of 52 dB and a maximum noise figure of 2.8 dB across the frequency range of 18 to 27 GHz. The DC power requirement for the amplifier is +12 V DC/200 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 18-27GHz
- Gain: 52dB Min
- Noise Figure: 2.8dB 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		27	GHz
小信号增益 Small Signal Gain	52			dB
增益平坦度 Gain Flatness		±0.6		dB
噪声系数 Noise Figure			2.8	dB
线性输出功率 Output P1dB	8			dBm
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		200		mA
阻抗 Impedance		50		Ohms

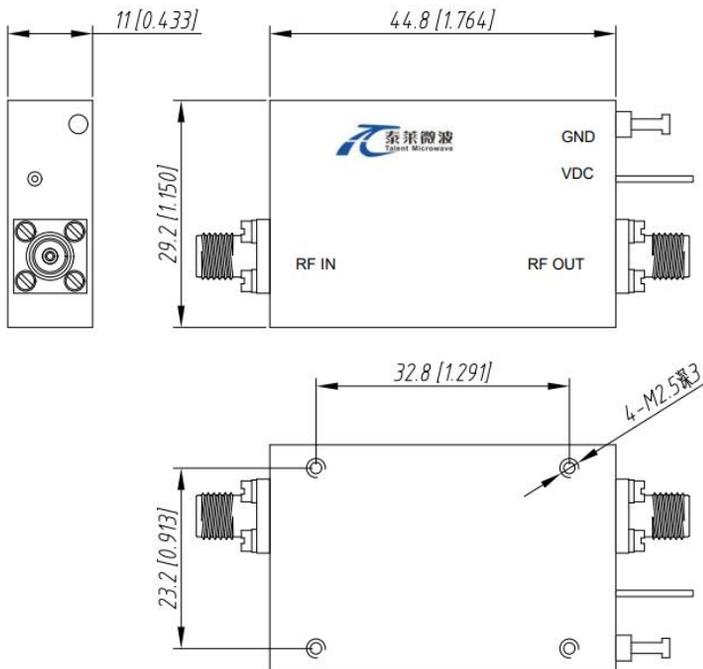
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	

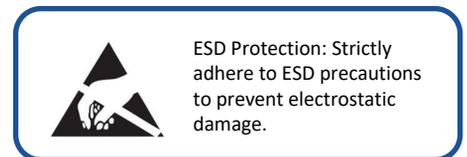
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm



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



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
TURLA18G27G-5228	Low Noise Amplifier, 18-27GHz, Noise Figure:2.8dB, Gain:52 dB,P1dB:8dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA18G27G-5228 HS	Low Noise Amplifier, 18-27GHz, Noise Figure:2.8dB, Gain:52 dB,P1dB:8dBm,+12V DC,With Heatsink	Rev.1.1