

Low Noise Amplifier

8-28GHz/2.5dB NF/27.5dB Gain/10dBm P1dB

TLLA8G28G-28-25

TURLA8G28G-2825 is a low noise amplifier with a typical small signal gain of 27.5 dB and a nominal noise figure of 2.5 dB across the frequency range of 8 to 28 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: 8-28GHz
- Gain: 27.5dB Typ
- Noise Figure: 2.5dB 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	8		28	GHz
小信号增益 Small Signal Gain	25	27.5	30	dB
增益平坦度 Gain Flatness		±2.5		dB
噪声系数 Noise Figure		2.5		dB
线性输出功率 Output P1dB		10		dBm
饱和输出功率 Output Psat		11		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output 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

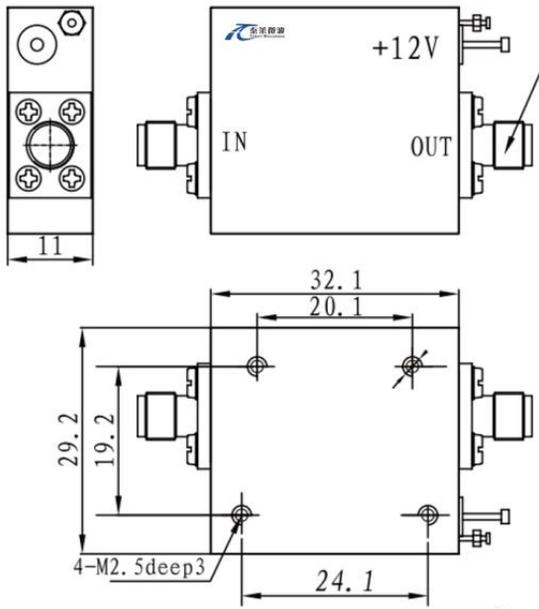
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
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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	-40		+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
TURLA8G28G-2825	Low Noise Amplifier, 8-28GHz, Noise Figure:2.5dB, Gain:27.5dB,P1dB:10dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA8G28G-2825 HS	Low Noise Amplifier, 8-28GHz, Noise Figure:2.5dB, Gain:27.5dB,P1dB:10dBm,+12V DC,,With Heatsink	Rev.1.1