

## TURLA0.5G8G-3520

TURLA0.5G8G-3520 is a low noise amplifier with a typical small signal gain of 35 dB and a maximum noise figure of 2.5 dB across the frequency range of 0.5 to 8 GHz. The DC power requirement for the amplifier is +15 V DC/480 mA. The input and output port configuration offers coax adapter structure with SMA female.

### Features:

- Frequency range: 0.5-8GHz
- Gain: 35dB Typ
- Noise Figure: 2.5dB 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	0.5		8	GHz
小信号增益 Small Signal Gain	30	35		dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure		1.5	2.5	dB
线性输出功率 Output P1dB	26	29		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		2.5	3.5	:1
输出驻波 Output VSWR		1.5	1.8	:1
直流电压 DC Voltage		+15		V DC
直流电流 DC Supply Current		480		mA
阻抗 Impedance		50		Ohms

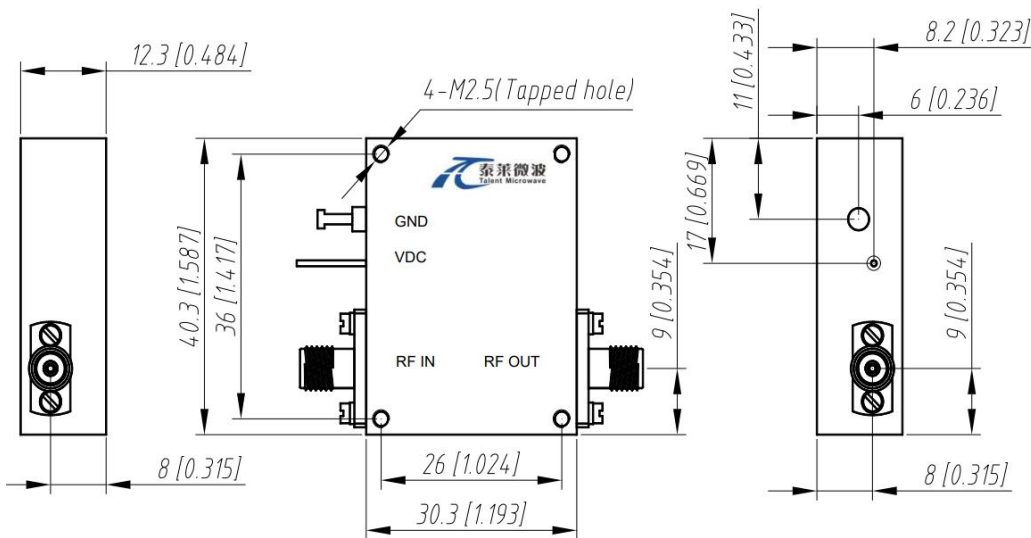
### 机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	

## 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



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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
TURLA0.5G8G-3520	Low Noise Amplifier, 0.5-8GHz, Noise Figure:2.5dB, Gain: 35dB,P1dB:29dBm,+15V DC,Without Heatsink	Rev.1.1
TURLA0.5G8G-3520	Low Noise Amplifier, 0.5-8GHz, Noise Figure:2.5dB, Gain: 35dB,P1dB:29dBm,+15V DC,With Heatsink	Rev.1.1