

Model:TLLA0.5G6G-33-25
**Low Noise Amplifier
 0.5-6GHz, NF:2.5dB, Gain:33dB,P1dB:20dBm**
Feature:

- Ultra Wide Band: 0.5-6GHz
- Gain: 33 Typ
- Noise Figure: 2.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	0.5-6			GHz
增益 Gain	30	33		dB
增益平坦度 Gain Flatness		±1.0	±2.0	dB
噪声系数 Noise Figure			2.5	dB
线性输出功率P1dB	17	20		dBm
三阶交调 IP3		29		dBm
输入驻波 Input VSWR		1.6	2.0	:1
输出驻波 Output VSWR		1.5	2.2	:1
最大输入功率 Input Max Power			-10	dBm
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 :

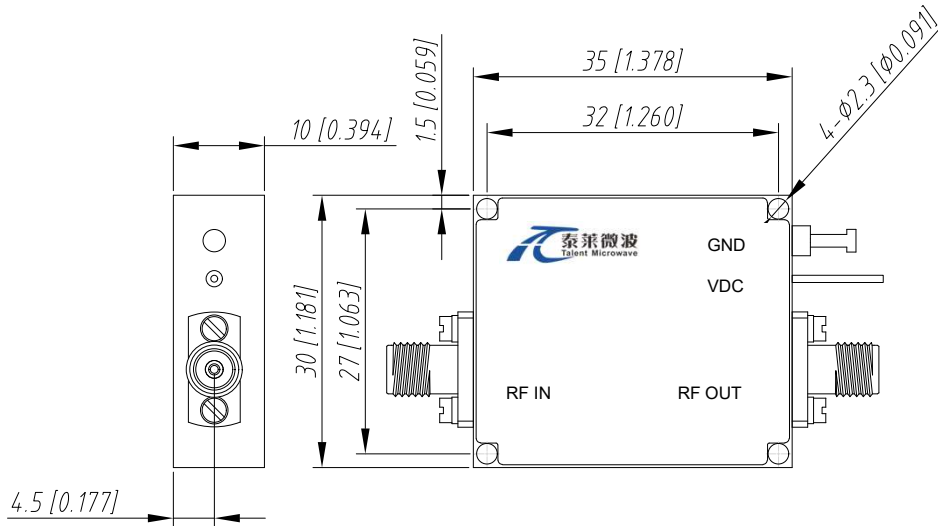
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	35*30*10	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
输入功率 RF INPUT POWER	-10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+75	°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			
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 Part Number	描述 Description	版本号Revision
TLLA0.5G6G-33-25	Low Noise Amplifier, 0.5-6GHz, Noise Figure:2.5 dB, Gain:33 dB,P1dB:20dBm,12V DC,Without Heatsink	Rev.1.1
TLLA0.5G6G-33-25-HS	Low Noise Amplifier, 0.5-6GHz, Noise Figure:2.5 dB, Gain:33 dB,P1dB:20dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Trc1 **S21** dB Mag 4 dB / Ref 30 dB Ca?
Trc2 **S11** SWR 1 U / Ref 1 U Ca?
Trc3 **S22** SWR 1 U / Ref 1 U Ca?

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