泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Low Noise Amplifier

26.5-40GHz /2.5dB NF/40dB Gain/10dBm P1dB Model: TLLA26.5G40G-40-25

TLLA26.5G40G-40-25 is a low noise amplifier with a typical small signal gain of 40 dB and a nominal noise figure of 2.5 dB across the frequency range of 26.5 to 40 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:

- Ultra Wide Band:26.5-40GHz
- Gain: 40dB 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	26.5		40	GHz
增益 Gain		40		dB
增益平坦度 Gain Flatness		±2.0		dB
噪声系数 Noise Figure		2.5		dB
线性输出功率 Output P1dB		10		dBm
输出三阶交调 Output IP3		20		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		: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	
尺寸 Size	44.8*29.2*11	mm

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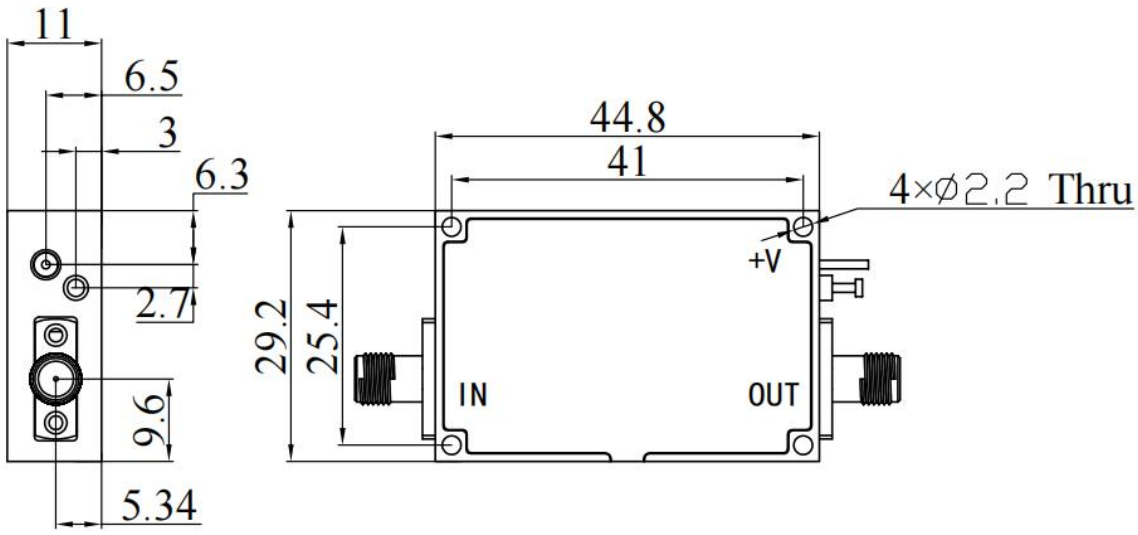
绝对最大值 Absolute Maximum Ratings:

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

外形图 Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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 Base Number	描述 Desciption	版本号 Revision
TLLA26.5G40G-40-25	Low Noise Amplifier, 26.5-40GHz, Noise Figure:2.5dB, Gain:40 dB,P1dB:10dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA26.5G40G-40-25-HS	Low Noise Amplifier, 26.5-40GHz, Noise Figure:2.5dB, Gain:40 dB,P1dB:10dBm,+12V DC,With Heatsink	Rev.1.1