

Model:TLLA50K53G-12-50
Low noise amplifier,50K-53GHz, NF:5dB
Feature:

- Broadband Performance
- Gain: 12dB
- Noise Figure: 5 dB Typical
- 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	50K-53GHz			GHz
增益 Gain		12		dB
增益平坦度 Gain Flatness		±2		dB
噪声系数 Noise Figure		5	6	dB
线性输出功率P1dB		+15		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	+5	+8		V DC
直流电流 DC Supply Current	160			mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

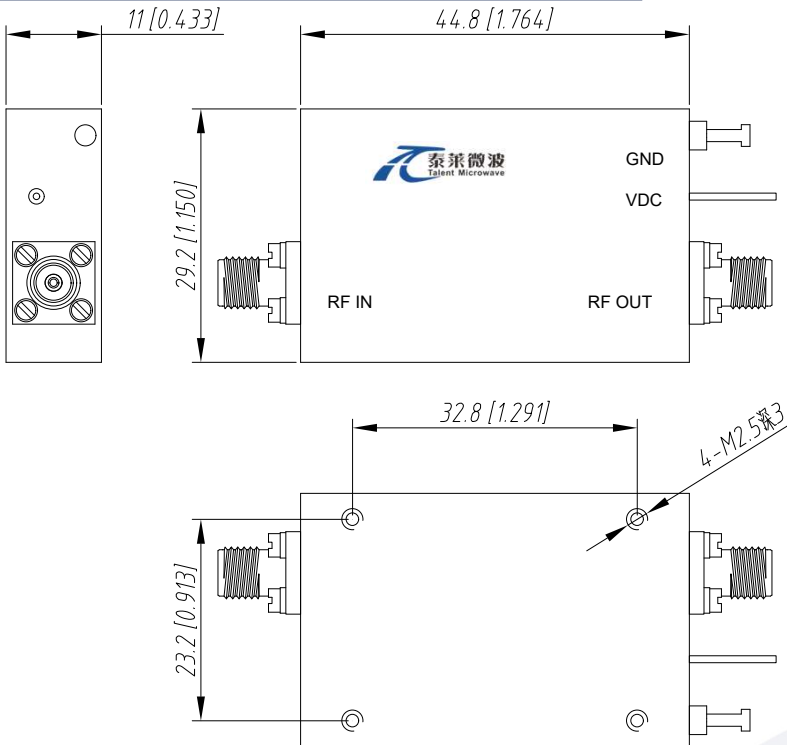
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	2.4mm (f)	
直流偏置 Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm
重量 Weight	/	g


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**

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			
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
TLLA50K53G-12-50	Low Noise Amplifier, 50KHz-53 GHz, Noise Figure:5.0 dB, Gain:12 dB,P1dB:15dBm,8V DC,Without Heatsink	Rev.1.1
TLLA50K53G-12-50-HS	Low Noise Amplifier, 50KHz-53 GHz, Noise Figure:5.0 dB, Gain:12 dB,P1dB:15dBm,8V DC With Heatsink	Rev.1.1