

Model:TLLA24G44G-40-50-2
**Low Noise Amplifier
 24-44GHz, NF:5.0dB, Gain:40dB,P1dB:21dBm**
Feature:

- Ultra Wide Band: 24-44GHz
- Gain: 40dB Typ
- Noise Figure: 5.0dB Typ
- 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	24-44			GHz
增益 Gain	38	40		dB
增益平坦度 Gain Flatness		±3.0	±4.0	dB
噪声系数 Noise Figure		5.0	6.0	dB
线性输出功率P1dB	20	21		dBm
饱和输出Output Power (Psat)		22		dBm
杂散Spurious		-60		dBc
输出三阶交调Output IP3		30		dBm
输入驻波 Input VSWR		1.8	2.5	:1
输出驻波 Output VSWR		1.8	2.5	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		750		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

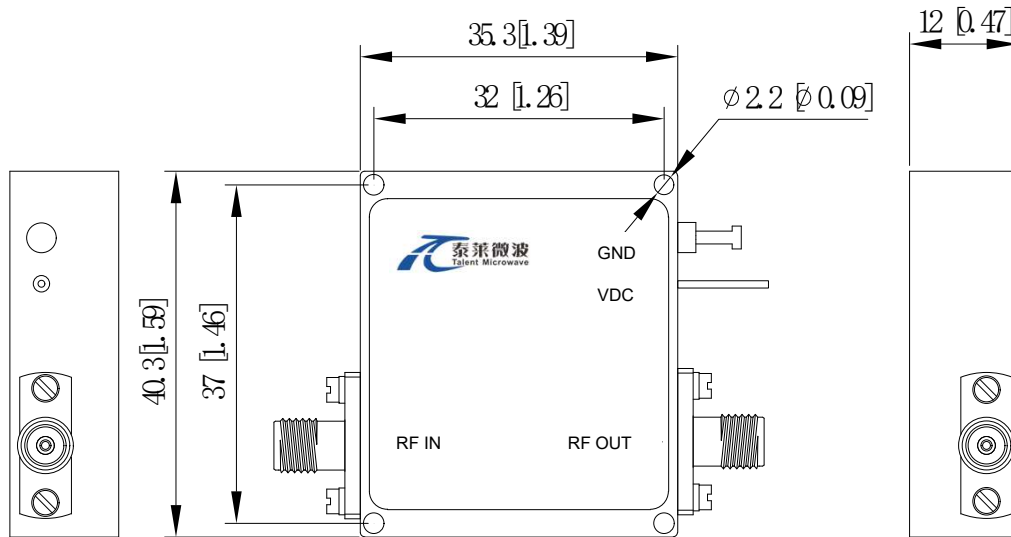
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	2.4 Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	35*40*12	mm
重量 Weight	50	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+18V
输入功率 RF INPUT POWER	-5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



*****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	-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			
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
TLLA24G44G-40-50-2	Low Noise Amplifier, 24-44GHz, Noise Figure:5.0 dB, Gain:40 dB,P1dB:21dBm,12V DC,Without Heatsink	Rev.1.1
TLLA24G44G-40-50-2-HS	Low Noise Amplifier, 24-44GHz, Noise Figure:5.0 dB, Gain:40 dB,P1dB:21dBm,12V DC,With Heatsink	Rev.1.1