

Model:TLLA2G40G-40-40
Low Noise Amplifier
2-40GHz, NF:4.0dB, Gain:43 dB,P1dB:18dBm
Feature :

- Ultra Wide Band: 2-40GHz
- Gain: 43 Typ
- Noise Figure: 4.0dB 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	2-40			GHz
增益 Gain	38	43		dB
增益平坦度 Gain Flatness		±1.5	±2.0	dB
噪声系数 Noise Figure		4.0	6.5	dB
杂散 Spurious		-60		dBc
线性输出功率P1dB	15	18		dBm
饱和输出功率Psat	20	21		dBm
输入驻波 Input VSWR		1.8	2.0	:1
输出驻波 Output VSWR		1.8	2.0	:1
直流电压 DC Voltage	8	12		V DC
直流电流 DC Supply Current		350		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	2.92 Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	40*35*12	mm
重量 Weight	30	g

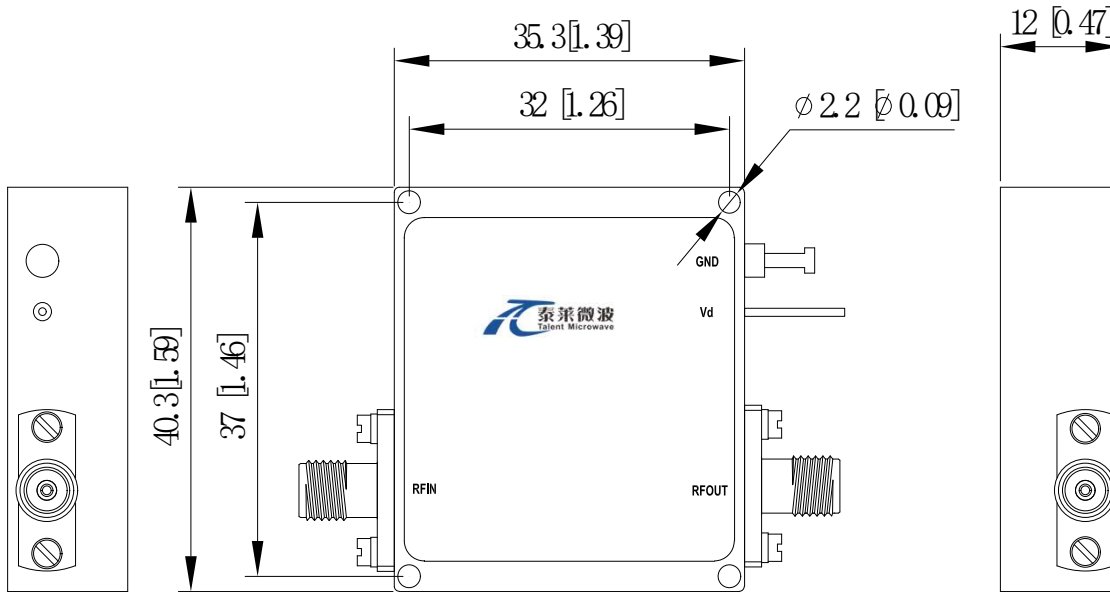
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15V
输入功率 RF INPUT POWER	-15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


 Available 220V System
 Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm(inchs)



*****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
TLLA2G40G-40-40	Low Noise Amplifier, 2-40GHz, Noise Figure:4.0 dB, Gain:43 dB,P1dB:18dBm,8~12V DC,Without Heatsink	Rev.1.1
TLLA2G40G-40-40-HS	Low Noise Amplifier, 2-40GHz, Noise Figure:4.0 dB, Gain:43 dB,P1dB:18dBm,8~12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain&Return Loss

