

Model:TLPA6G12G-30-36

Power Amplifier
6-12GHz,Gain:30dB,P1dB:36dBm

Feature:

- Ultra Wide Band:6-12GHz
- Gain:30dB Min
- Psat Output Power:38dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	6-12			GHz
增益 Gain	30			dB
增益平坦度 Gain Flatness		±1.5	±2.5	dB
线性输出功率 Output P1dB	36	37		dBm
饱和输出功率 Output Psat		38		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		1.5	2	:1
输出驻波 Output VSWR		1.5	2	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		2.3	2.5	A
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	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	85*50*12	mm
重量 Weight	300	g

绝对最大值 Absolute Maximum Ratings:

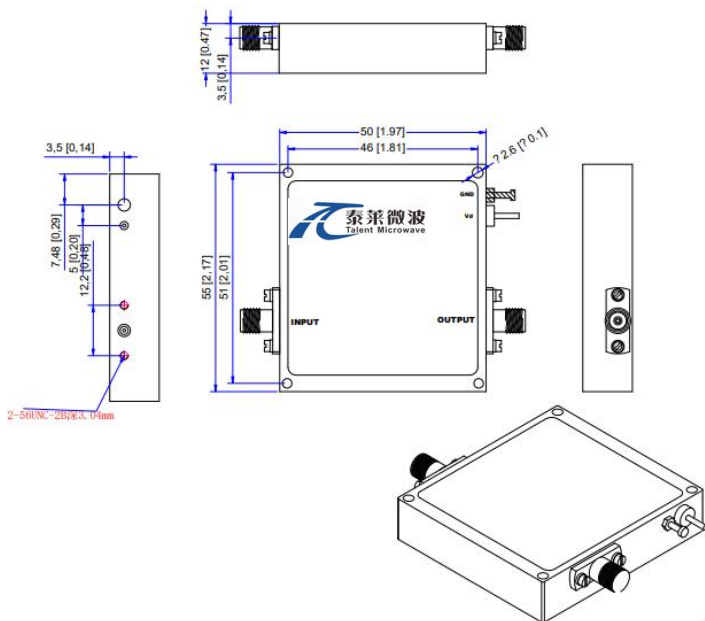
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF Input Power	12dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

温度环境 Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-35		+70	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
海拔 Altitude	50000			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
TLPA6G12G-30-36	Power amplifier 6-12GHz,Gain30dB,P1dB:36dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA6G12G-30-36-HS	Power amplifier 6-12GHz,Gain30dB,P1dB:36dBm,+12V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

Input VSWR vs Frequency

