

Model:TLPA2G6G-47-47
Power Amplifier
2-6GHz,Gain:47dB,Psat:47dBm
Feature:

- Ultra Wide Band: 2-6GHz
- Gain:47dB Min
- Psat Output Power:47dBm 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	2-6			GHz
增益 Gain	47			dB
增益平坦度 Gain Flatness			±1.5	dB
线性输出功率平坦度 Output P1dB Flatness		±3		dB
饱和输出功率 Output Psat	47	48		dBm
杂散 Spurious			-60	dBc
谐波 Harmonics		-15		dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+36		V DC
直流电流 DC Supply Current		12		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	J30J-21ZKP	
尺寸 Size	200*120*20	mm
重量 Weight	3	Kg

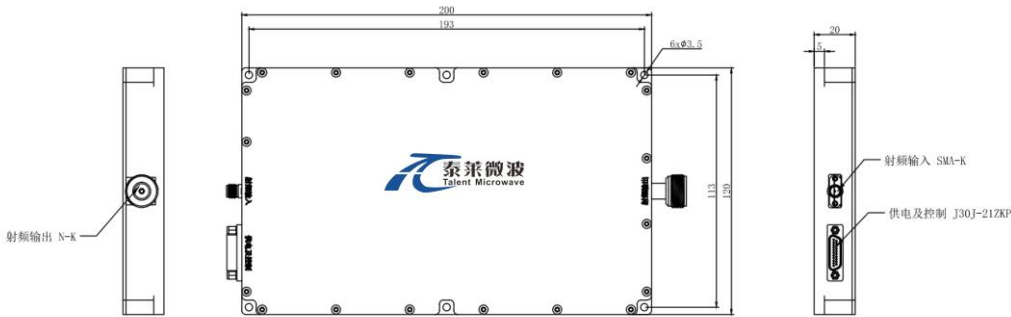
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+36V
输入功率 RF Input Power	10dBm
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**

J30J-21ZKP引脚定义

引脚 Pin	功能 Function
Pin1-9	+36V
Pin10-18	GND
Pin19	电流检测(模拟电压, 提供电流/电压对照表)
Pin20	温度检测(模拟电压, 提供温度/电压对照表)
Pin21	使能(高电平有效, 低电平及悬空无效)



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	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°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
TLPA2G6G-47-47	Power amplifier 2-6GHz,Gain:47dB,Psat:47dBm,+36V DC,Without Heatsink.	Rev.1.1
TLPA2G6G-47-47-HS	Power amplifier 2-6GHz,Gain:47dB,Psat:47dBm,+36V DC,With Heatsink.	Rev.1.1