

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:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	2-6			GHz
功率增益 Power Gain	47			dB
增益平坦度 Gain Flatness			±1.5	dB
饱和输出功率 Output Psat	47	48		dBm
饱和输出功率平坦度 Psat Flatness			±1.5	dB
输入功率Input Power		0	10	dBm
线性增益平坦度 Linear Gain Flatness		±3		dB
杂散Spurious@Pout=44dBm	60			dBc
谐波 Harmonics@Pout=44dBm		15		dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage		+36		V DC
电流 Current		12		A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

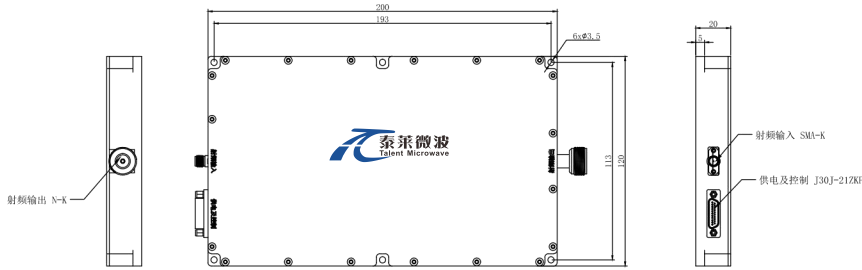
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	SMA-Female/N-Female	
控制及检测接口 Control and Test interface	J30J-21ZKP	
尺寸 Size	200*120*20	mm
重量 Weight	3	Kg

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+36 V
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



*****Heat Sink Required During Operation**

J30J-21ZKP	
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)



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