

Model:TLPA6.9G7.4G-43-43
Power Amplifier
6.9-7.4GHz,Gain:43dB,Psat:43dBm
Feature:

- Ultra Wide Band: 6.9-7.4GHz
- Gain: 43 dB Min
- Psat Output Power: 43 dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 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	6.9-7.4			GHz
增益 Gain	43			dB
增益平坦度 Gain Flatness			±2	dB
饱和输出功率 Output Psat	43			dBm
杂散 Supurious@Pout=43dBm			-50	dBc
谐波 Harmonic@Pout=43dBm			-15	dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage	+28			V DC
直流电流 DC Supply Current		5	5.5	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	J30J-9ZKP	
尺寸 Size	180*110*30	mm
重量 Weight	400	g

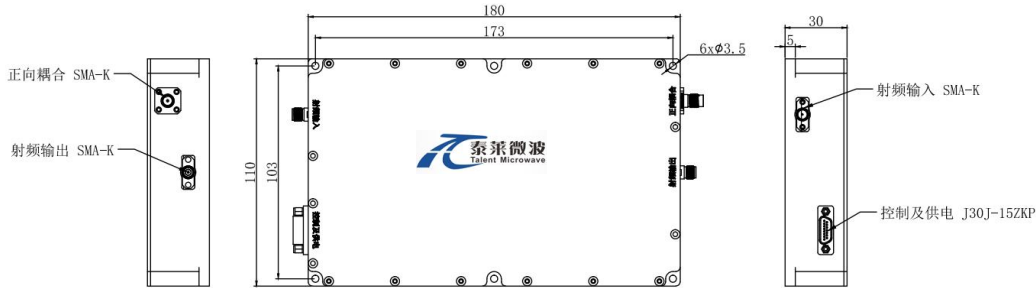
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28 V
输入功率 RF Input Power	+10 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



J30J-9ZKP引脚定义

引脚 Pin	功能 Function
Pin1-3	+28V
Pin4	过温指示 (高电平表示异常, 低电平表示正常)
Pin5	过驻波指示 (高电平表示异常, 低电平表示正常)
Pin6-8	GND
Pin9	TTL (电源通断控制, 高电平有效, 低电平及悬空无效)

***Heat Sink Required During Operation



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	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA6.9G7.4G-43-43	Power amplifier 6.9-7.4GHz,Gain:43dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA6.9G7.4G-43-43-HS	Power amplifier 6.9-7.4GHz,Gain:43dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.1