泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

2-22.5GHz/36dB Gain/36dBm Psat

Model: TLPA2G22.5G-36-36

TLPA2G22.5G-36-36 is a power amplifier with a minimum power gain of 36 dB and a minimum Psat of 36 dBm across the frequency range of 2 to 22.5 GHz. The DC power requirement for the amplifier is +18 VDC/4 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-22.5GHz
- Gain: 36dB Min
- Output Power Psat: 36dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	2		22.5	GHz
功率增益 Power Gain@Pout=36dBm	36			dB
增益平坦度 Gain Flatness		±4		dB
饱和输出功率 Output Psat	36			dBm
杂散 Spurious@Pout=36dBm			-60	dBc
谐波 Harmonic@Pout=36dBm			-10	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		18		V DC
直流电流 DC Supply Current			4	A
阻抗 Impedance	50			Ohms

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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	
直流供电接口 DC SupplY Connector	J30J-9ZKP	
尺寸 Size	150*90*20	mm

绝对最大值 Absolute Maximum Ratings:

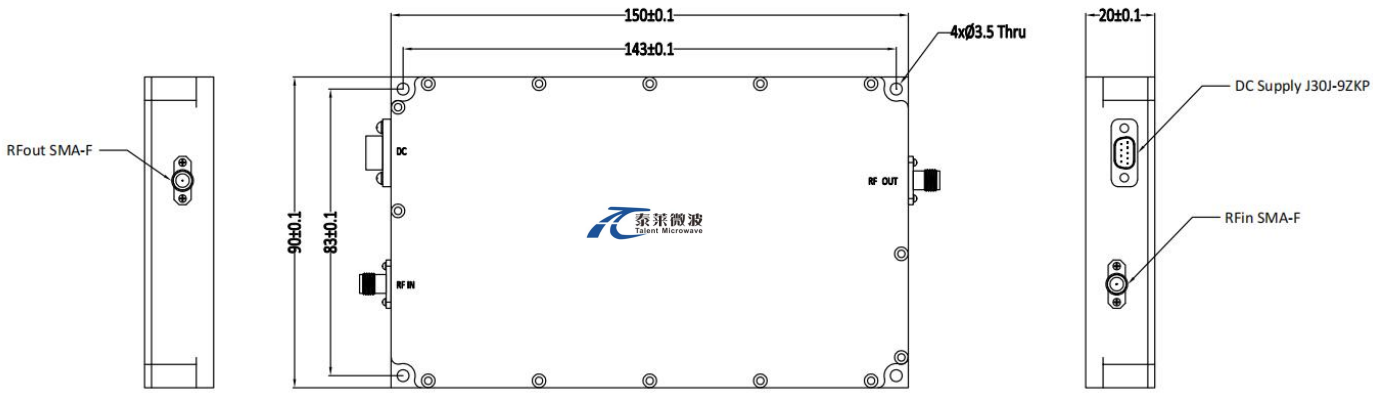
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



***Heat Sink Required During Operation



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	℃
存储温度 Non-operating Temperature*	-50		+70	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA2G22.5G-36-36	Power amplifier 2-22.5GHz, Gain:36dB,Psat:36dBm,+18V DC,Without Heatsink	Rev.1.0
TLPA2G22.5G-36-36-HS	Power amplifier 2-22.5GHz, Gain:36dB,Psat:36dBm,+18V DC,With Heatsink	Rev.1.0