

Power Amplifier

30-36GHz/46dB Gain/46dBm Psat

Model: TLPA30G36G-46-46

TLPA30G36G-46-46 is a power amplifier with a minimum gain of 46 dB and a minimum Psat of 46 dBm across the frequency range of 30 to 36 GHz. The DC power requirement for the amplifier is +28 VDC/20 A. The input port configuration offers coax adapter structure with 2.92mm female and output port is WR28.

Features:

- Frequency range: 30-36GHz
- Gain: 46dB Min
- Output Power Psat: 46dBm 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	30		36	GHz
增益 Gain	46	50		dB
增益平坦度 Gain Flatness		±3	±5	dB
线性输出功率 Output P1dB		44		dBm
饱和输出功率 Output Psat	46	47		dBm
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		+28	+30	V DC
直流电流 DC Supply Current		20	32	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	2.92 Female/WR28	
直流偏置 DC Bias	D-SUB-9	
尺寸 Size	220*200*35	mm
重量 Weight	6	kg

绝对最大值 Absolute Maximum Ratings:

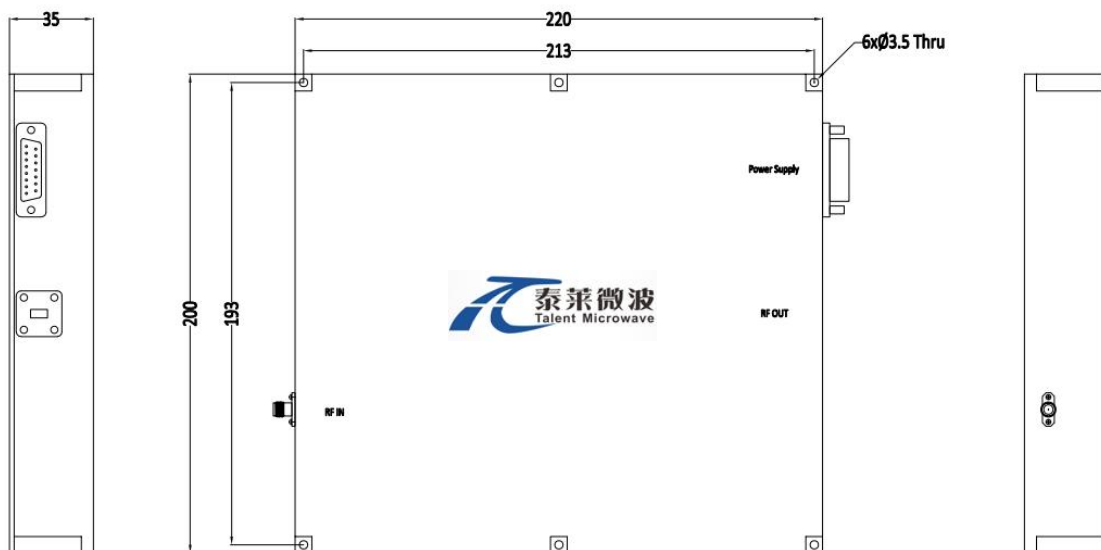
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30 V
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



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.

温度环境 Environmental Conditions:

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

*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
TLPA30G36G-46-46	Power amplifier 30-36GHz, Gain:46dB,Psat:46dBm,+28V DC,Without Heatsink	Rev.1.1
TLPA30G36G-46-46-HS	Power amplifier 30-36GHz, Gain:46dB,Psat:46dBm,+28V DC,With Heatsink	Rev.1.1