

Model:TLPA4G8G-50-44
Power Amplifier
4-8GHz,Gain:50dB,Psat:44dBm
Feature:

- Ultra Wide Band: 4-8GHz
- Gain: 50dB Min
- Psat Output Power: 44 dBm 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	4-8			GHz
增益 Gain	50	52		dB
增益平坦度 Gain Flatness		±3	±4	dB
线性输出功率 Output P1dB	43	43.5		dBm
饱和输出功率 Output Psat	43.5	44		dBm
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		2	10	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	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	140*80*15	mm
重量 Weight	200	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
输入功率 RF INPUT POWER	3 dBm
ESD灵敏度 ESD sensitivity (HBM)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

温度环境 Environmental Conditions:

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+70	°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)	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
TLPA4G8G-50-44	Power amplifier 4-8GHz, Gain:50dB, Psat:44dBm, +28V DC, Without Heatsink	Rev.1.0
TLPA4G8G-50-44-HS	Power amplifier 4-8GHz, Gain:50dB, Psat:44dBm, +28V DC, With Heatsink	Rev.1.0