

**Model:TLPA100M2G-30-30**
**Power Amplifier**
**100MHz-2.0GHz, Gain:30dB, P1dB:30dBm**
**Feature:**

- Ultra Wide Band: 100MHz-2.0GHz
- Gain: 27dB Min
- P1dB Output Power: 30 dBm Min
- 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	0.1-2.0			GHz
增益 Gain	27	30		dB
增益平坦度 Gain Flatness		±0.5	±0.75	dB
线性输出功率P1dB	30	31		dBm
谐波抑制@Pout=30dBm	20	25		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		15	16	V DC
直流电流 DC Supply Current		0.7	1	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	
直流偏置 Bias	Solder Pin	
尺寸 Size	120X70X15	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	16
输入功率 RF INPUT POWER	+5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm



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



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-45		+85	°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
TLPA100M2G-30-30	Power amplifier 100MHz-2.0GHz, Gain:30dB, P1dB:30dBm, 15V DC, Without Heatsink	Rev.1.0
TLPA100M2G-30-30-HS	Power amplifier 100MHz-2.0GHz, Gain:30dB, P1dB:30dBm, 15V DC, With Heatsink	Rev.1.0