

Model: TLPA1G1.1G-50-57
Power Amplifier
1GHz-1.1GHz, Gain: 50dB, Psat: 57dBm
Feature:

- Wide Band: 1GHz-1.1GHz
- Gain: 45dB Min
- Psat Output Power: 57 dBm Min
- 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	1-1.1			GHz
增益 Gain	45	50		dB
增益平坦度 Gain Flatness		±1	±2	dB
线性输出功率 Output P1dB	50	53		dBm
饱和输出功率 Output Psat	57	57.5		dBm
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage	30	32	34	V DC
直流电流 DC Supply Current		5	50	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 Bias	Solder Pin	
尺寸 Size	230*150*25	mm
重量 Weight	1500	g

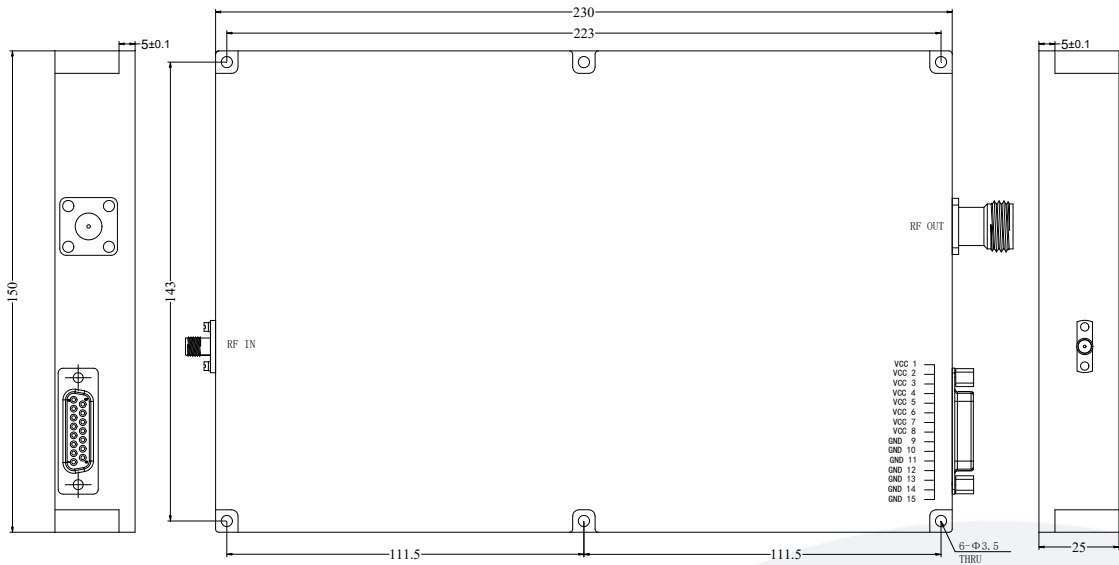

 Available 220V System
 Benchtop Amplifier

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	+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**



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
TLPA1G1.1G-50-57	Power amplifier 1GHz-1.1GHz,Gain:50dB,Psat:57dBm,32V DC, Without Heatsink	Rev.1.0
TLPA1G1.1G-50-57-HS	Power amplifier 1GHz-1.1GHz,Gain:50dB,Psat:57dBm,32V DC, With Heatsink	Rev.1.0