

Model:TLPA20M1G-50-43-HS
Power Amplifier
20MHz-1GHz,Gain:50dB,Psat:43dBm
Feature:

- Frequency range: 20MHz-1GHz
- Gain: 50dB Typ
- Psat Output Power: 43 dBm Typ
- 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	0.02-1			GHz
增益 Gain	46	50		dB
增益平坦度 Gain Flatness		±1dB	±2dB	dB
线性输出功率P1dB	39	41		dBm
饱和输出功率Psat	40	43		dBm
噪声系数Noise Figure		3.5		dB
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		24		V DC
开关时间Switching Time		5		µsec
直流电流 DC Supply Current		3		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	120.6X50.8X28.5	mm
重量 Weight	150	g

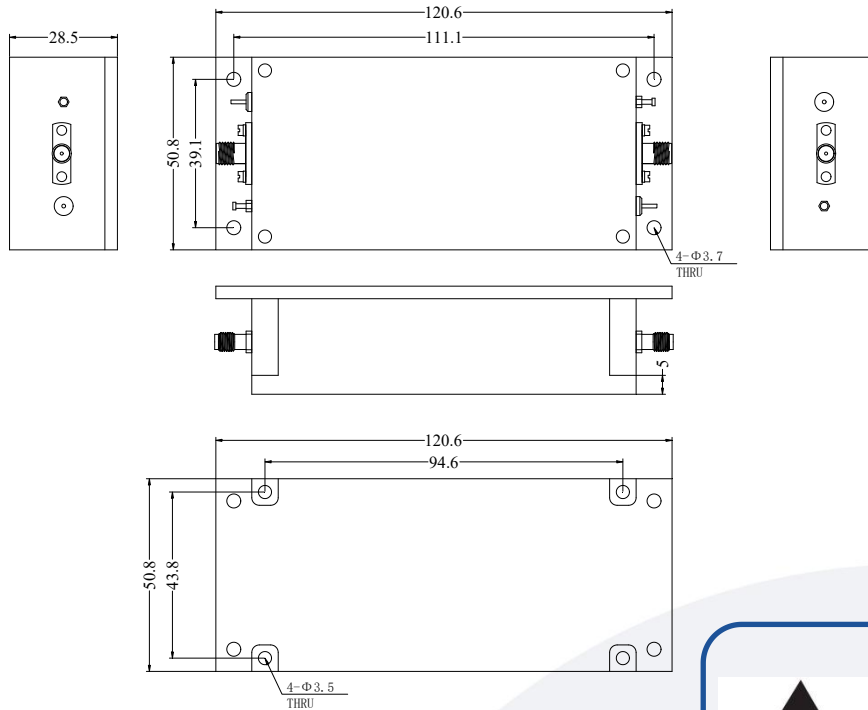

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	28
输入功率 RF INPUT POWER	-3 dBm
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
TLPA20M1G-50-43	Power amplifier 20MHz-1GHz, Gain:50dB, Psat:43dBm, 24V DC, Without Heatsink	Rev.1.0
TLPA20M1G-50-43-HS	Power amplifier 20MHz-1GHz, Gain:50dB, Psat:43dBm, 24V DC, With Heatsink	Rev.1.0

