

Model:TLPA0.7G5G-20-32
Power Amplifier
700MHz-5GHz, Gain:20dB, P1dB:30dBm
Feature:

- Ultra Wide Band: 700MHz-5GHz
- Gain: 20dB Min
- P1dB Output Power: 30 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	0.7-5			GHz
增益 Gain	20	25		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB	30	31		dBm
饱和输出功率 Output Psat		32		dBm
谐波抑制 Harmonic @Pout=40dBm		-15		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		12	15	V DC
直流电流 DC Supply Current		0.7	1.0	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

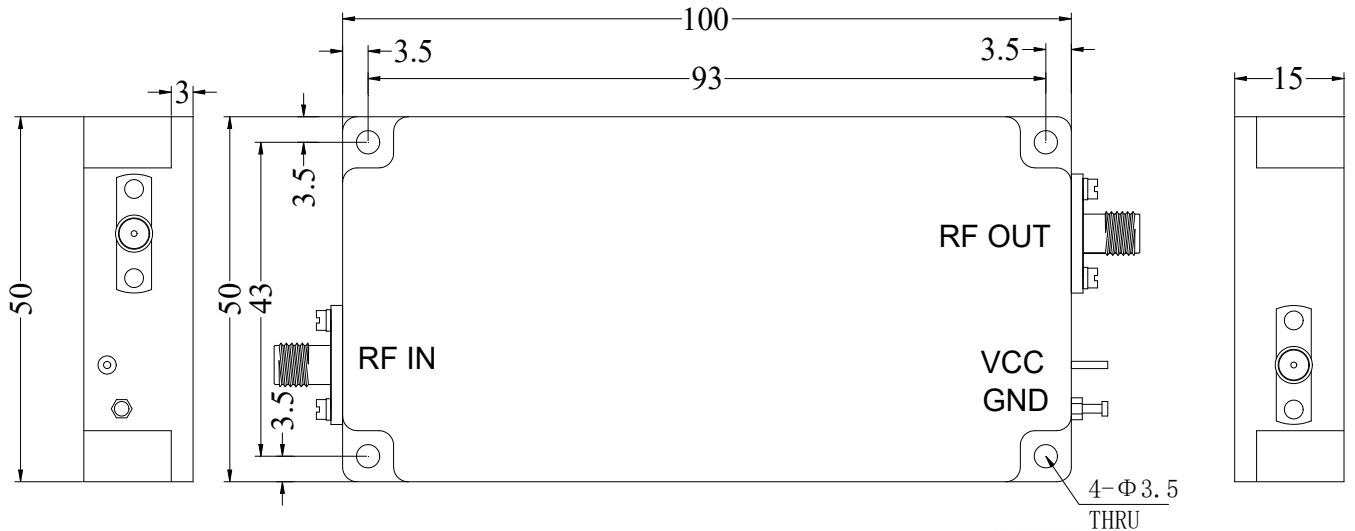
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	100*50*15	mm
重量 Weight	150	g


**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	15V
输入功率 RF INPUT POWER	0 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
TLPA0.7G5G-20-32	Power amplifier 700MHz-5GHz, Gain:20dB, P1dB:30dBm, 12V DC, Without Heatsink	Rev.1.0
TLPA0.7G5G-20-32-HS	Power amplifier 700MHz-5GHz, Gain:20dB, P1dB:30dBm, 12V DC, With Heatsink	Rev.1.0