

Model:TLPA14G15G-48-48
Power Amplifier
14-15GHz,Gain:48dB,Psat:48dBm
Feature:

- Ultra Wide Band: 14-15 GHz
- Gain: 48 dB Min
- Psat Output Power: 48 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	14-15			GHz
增益 Gain	48			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	48			dBm
杂散 Supurious@Pout=48dBm			-60	dBc
谐波 Harmonic			-20	dBc
三阶互调 3rd Order IMD	25			dBc
输入驻波 Input VSWR			1.5	:1
直流电压 DC Voltage	+28			V DC
功耗 Power Consumption	400@Max			W
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/WR-62	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	≤3.5	Kg

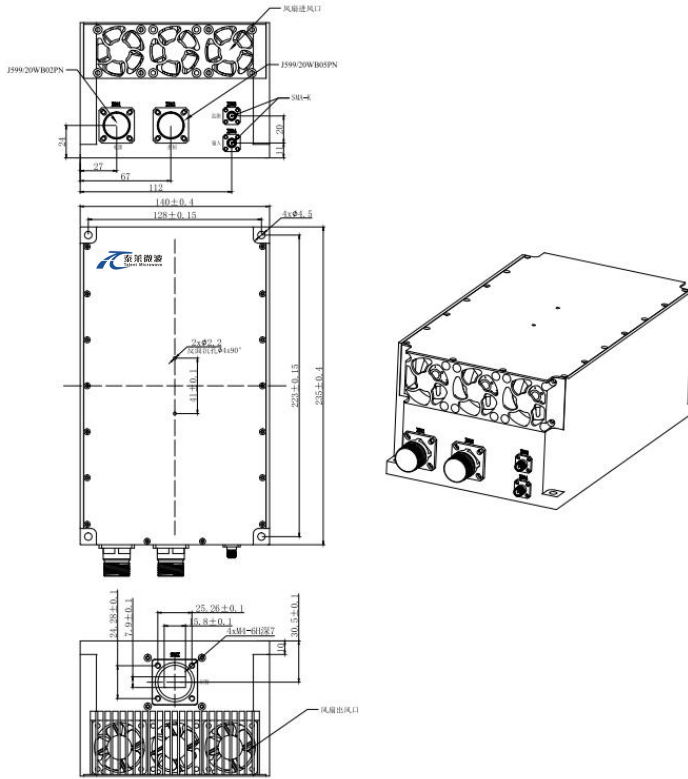
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	+10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


 Available 220V System
 Benchtop Amplifier

外形尺寸Outline Drawing:

Unit: mm



Pin	Function
J1	1,RF Input 2,IF/REF Input
J2	RF Output
J3	Supply Voltage
J4	Communication
J5	Output Power Forward Coupling

温度环境 Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-55		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA14G15G-48-48	Power amplifier 14-15GHz,Gain:48dB,Psat:48dBm, +28V DC	Rev.1.1