

**Model: TMPA-210230-1320-04**

**Power Amplifier**  
**210-230 GHz, Gain:13.5 dB, Psat:20 dBm**

**Feature:**

- Frequency Range:210-230 GHz
- Gain:13.5 dB Typ
- Output Power Psat:20 dBm Typ
- Good Power and Gain Flatness

**电气特性 Electrical Specifications:**

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	210-230			GHz
增益 Gain	9.5	13.5	17	dB
饱和输出功率 Output Psat	19	20	20.3	dBm
输入驻波 Input VSWR		1.5		:1
输出驻波 Output VSWR		2.3		:1
直流电压 DC Voltage		5-8		V DC
直流电流 DC Supply Current		1350		mA

**机械特性 Mechanical Specifications:**

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	WR-04/UG-387/U	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	/	g

**绝对最大值 Absolute Maximum Ratings:**

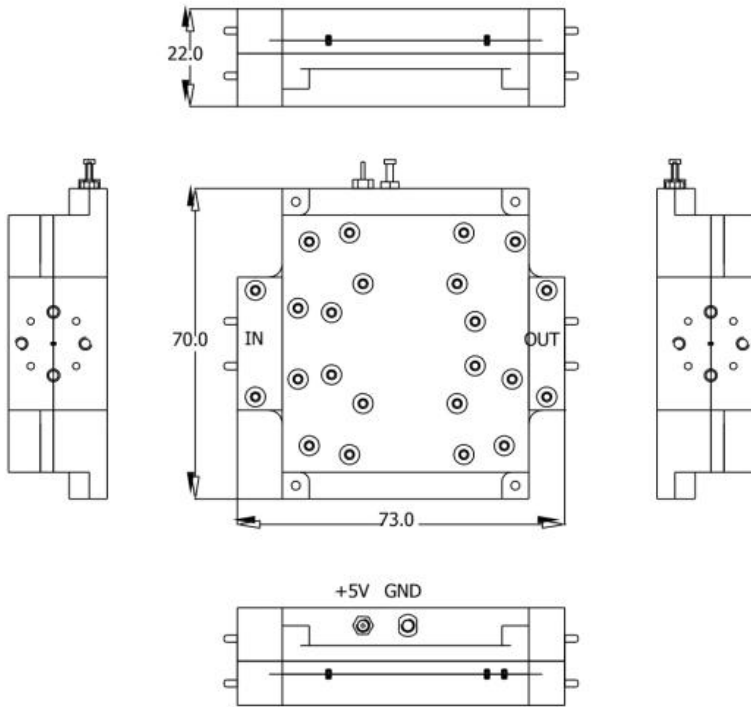
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	17dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System  
Benchtop Amplifier

**外形尺寸 Outline Drawing:**

Unit: mm(Inches)



Define	
引脚 Pin	功能 Function
1	RF Input
2	RF Output
3	+5V
4	GND

**温度环境 Environmental Conditions:**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

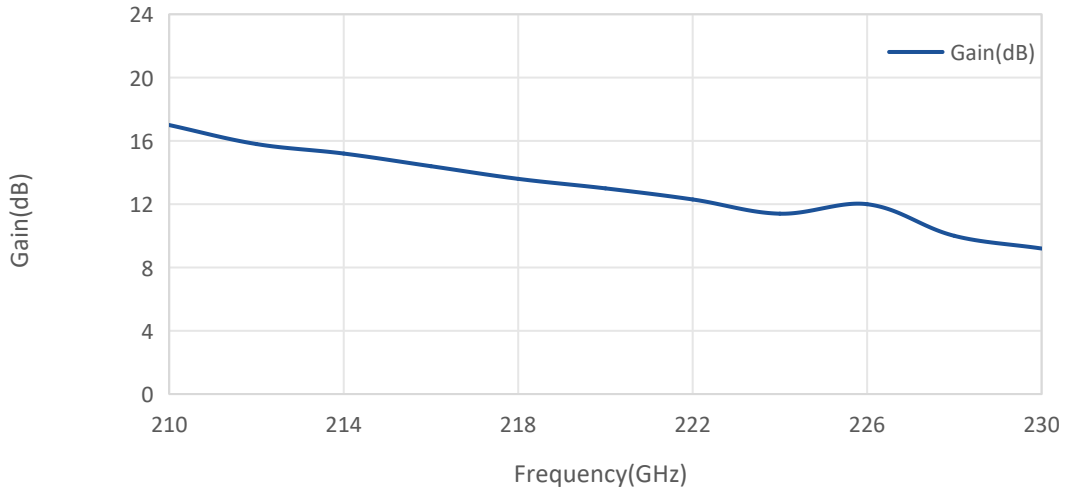
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	0		+25	°C
存储温度 Non-operating Temperature	0		+50	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

**订货信息 Ordering Information:**

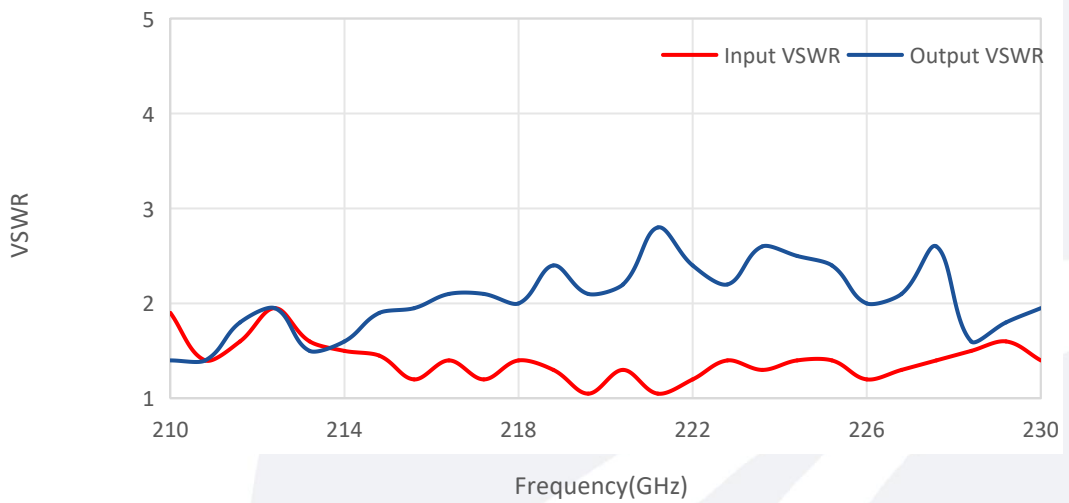
标准型号 Part Number	描述 Description	版本号 Revision
TMPA-210230-1320-04	Power Amplifier, 210-230 GHz, Gain: 13.5 dB Typ, Psat: 20 dBm Typ, 8V DC, WR-04	Rev.1.1

典型曲线 Typical Performance Data:

Gain vs Frequency



VSWR vs Frequency



Psat vs Frequency

