

Model: TMPA-210230-1320-04

Power Amplifier

210-230GHz, Psat:20 dBm Typ, Gain:13.5 dB

Feature:

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

电气特性 Electrical:

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 :

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	WR-4/UG-387/U	
直流偏置 Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	/	g

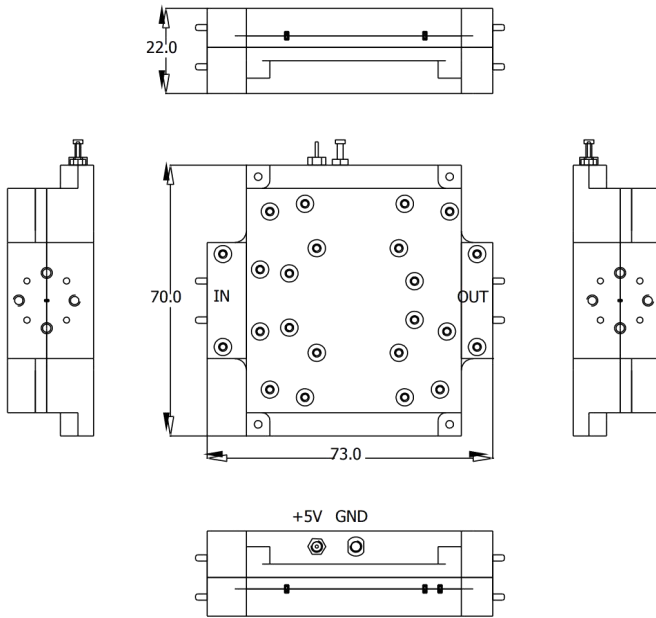


绝对最大值 Absolute Maximum Ratings:

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

外形尺寸 Outline Drawing:

Unit: mm(Inches)



引脚定义

编号	符号	功能描述
1	IN	射频信号输入端, WR4波导口
2	OUT	射频信号输出端, WR4波导口
3	+5V	电源端
4	GND	接地端



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

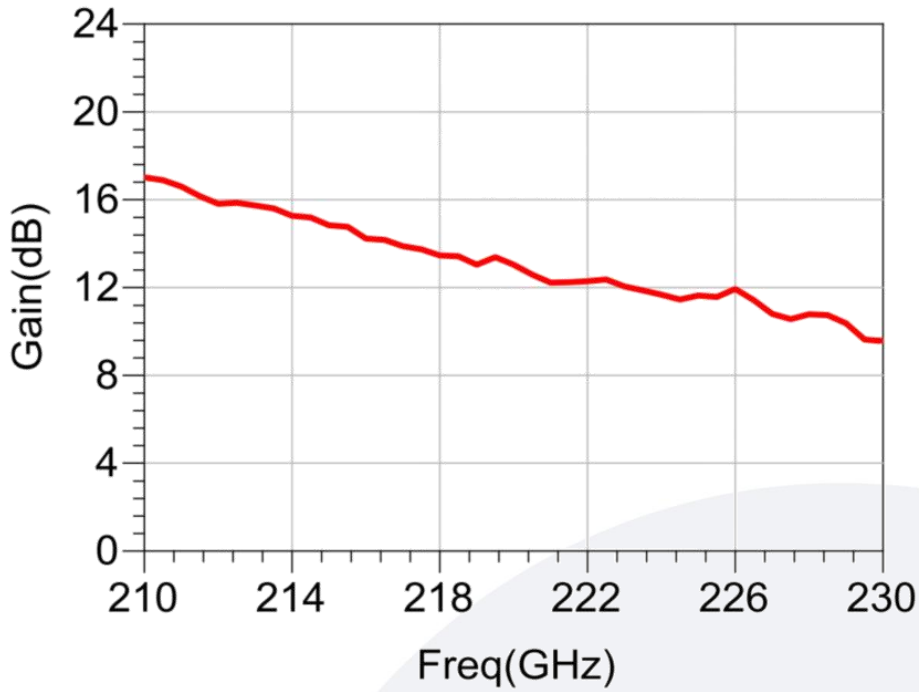
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	0		+25	°C
存储温度 Non-operating Temperature	0		+50	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

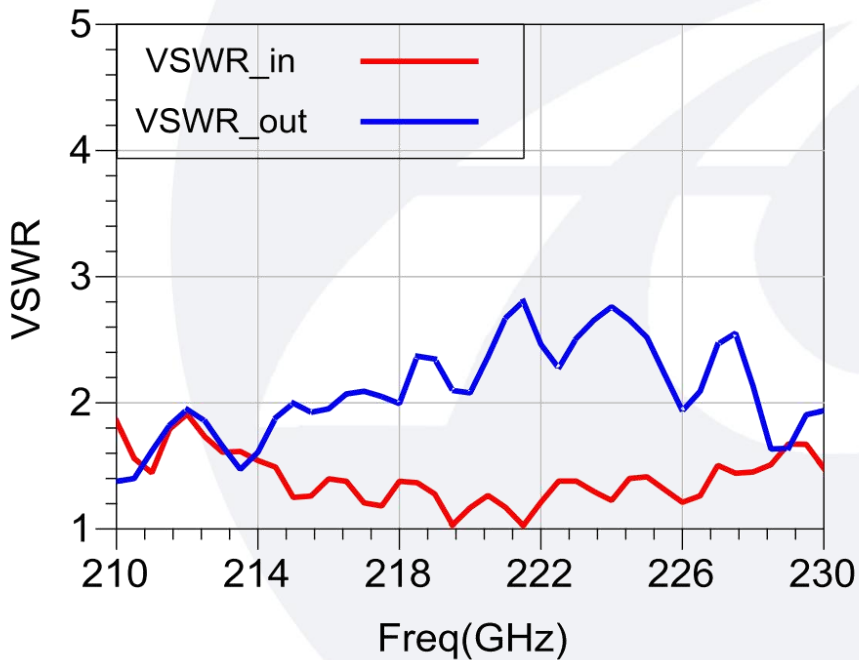
标准型号 Part Number	描述 Description	版本号Revision
TMPA-210230-1320-04	Power Amplifier 210-230 GHz, Psat:20 dBm Type, Gain:13.5 dBm Type,WR-04	Rev.1.1

典型曲线 Typical Performance Data:

小信号增益 vs. 频率

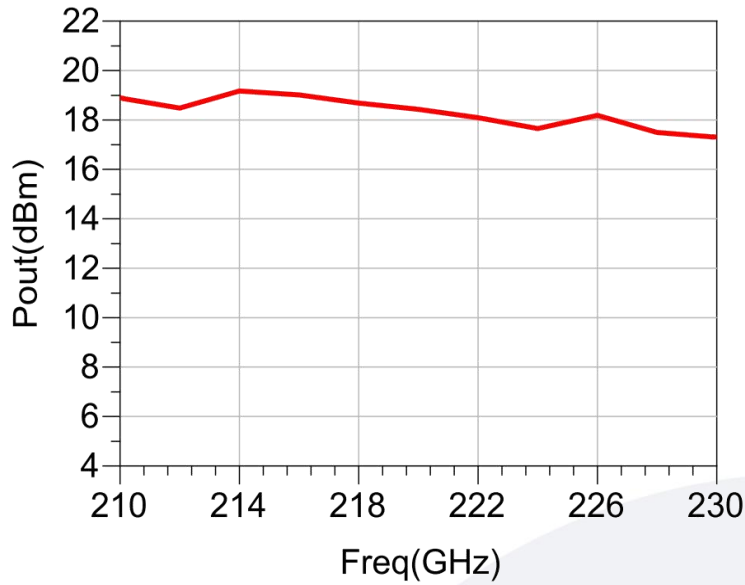


输入/输出驻波 vs. 频率

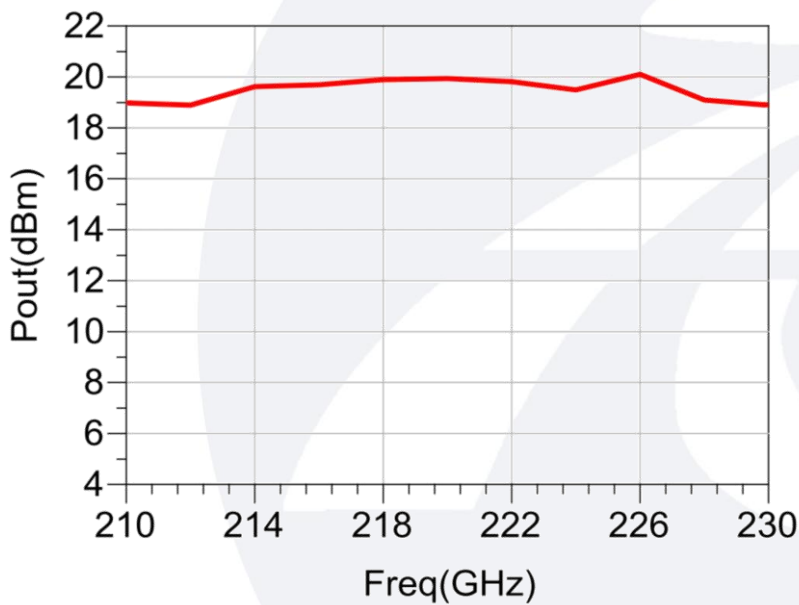


典型曲线 Typical Performance Data:

饱和输出功率 vs. 频率 @ Pin=5dBm



饱和输出功率 vs. 频率 @ Pin=10dBm



典型曲线 Typical Performance Data:

饱和输出功率 vs. 频率@Pin=15dBm

