

Model:TLPA890M925M-54-54
Power Amplifier
890MHz-925MHz,Gain:54dB,Psat:54dBm
Feature:

- Frequency range: 890MHz-925MHz
- Gain: 52dB Min
- Psat Output Power: 54 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	890-925			MHz
增益 Gain	52	54		dB
增益平坦度 Gain Flatness		±1	±1.5	dB
饱和输出功率 Output Psat	54	54.5		dBm
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage	46	48	50	V DC
直流电流 DC Supply Current	15			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 DC Bias	D-SUB-9	
尺寸 Size	170*95*22	mm
重量 Weight	1000	g

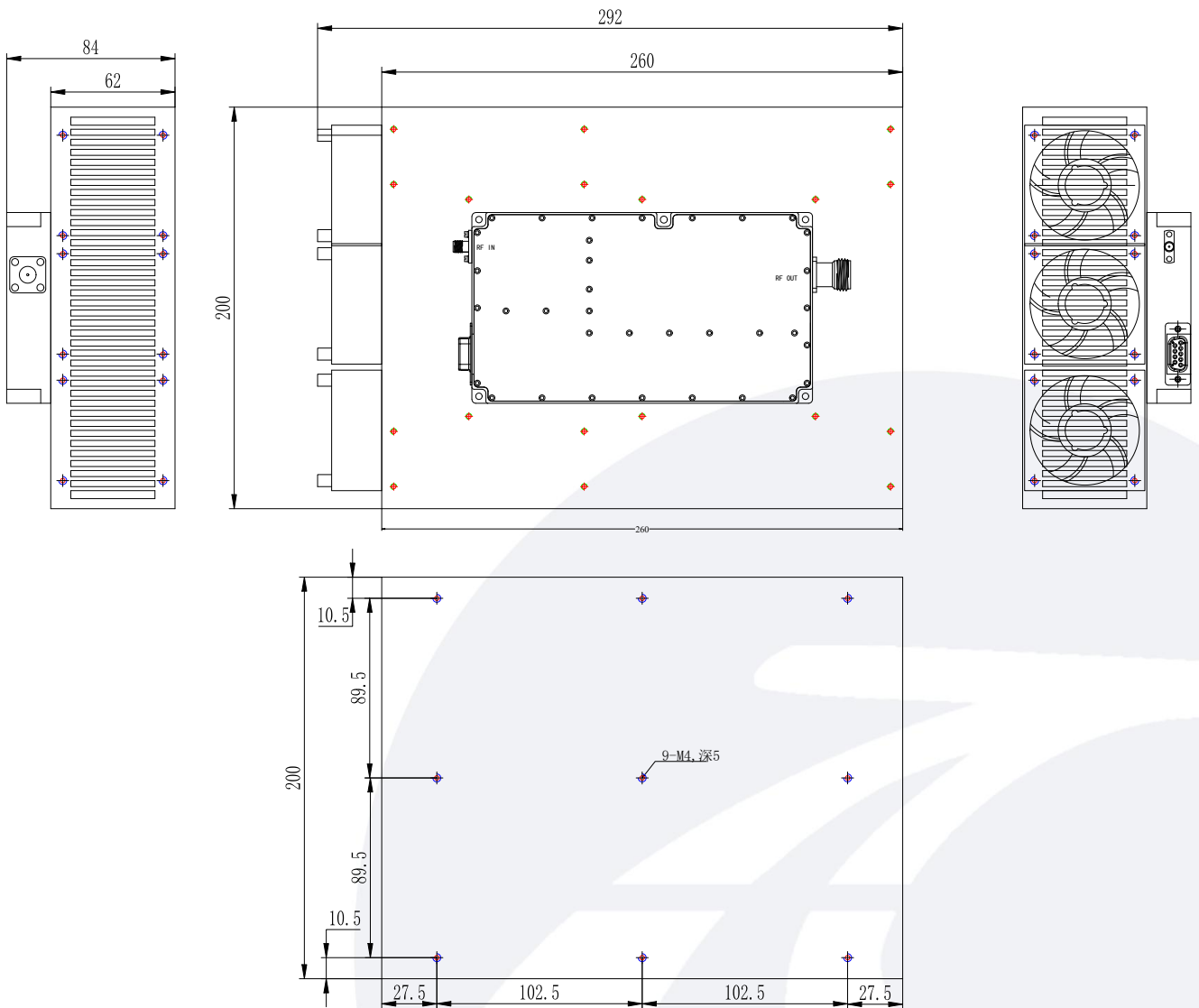
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	30V
输入功率 RF Input Power	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


 Available 220V System
 Benchtop Amplifier

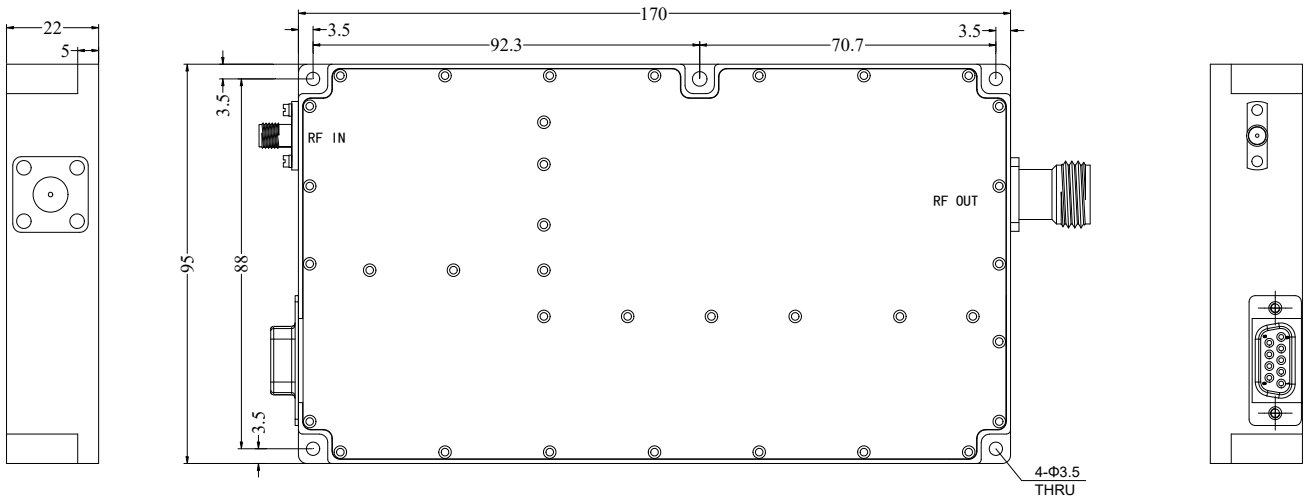
外形尺寸 Outline Drawing:

Unit: mm



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Unit: mm



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

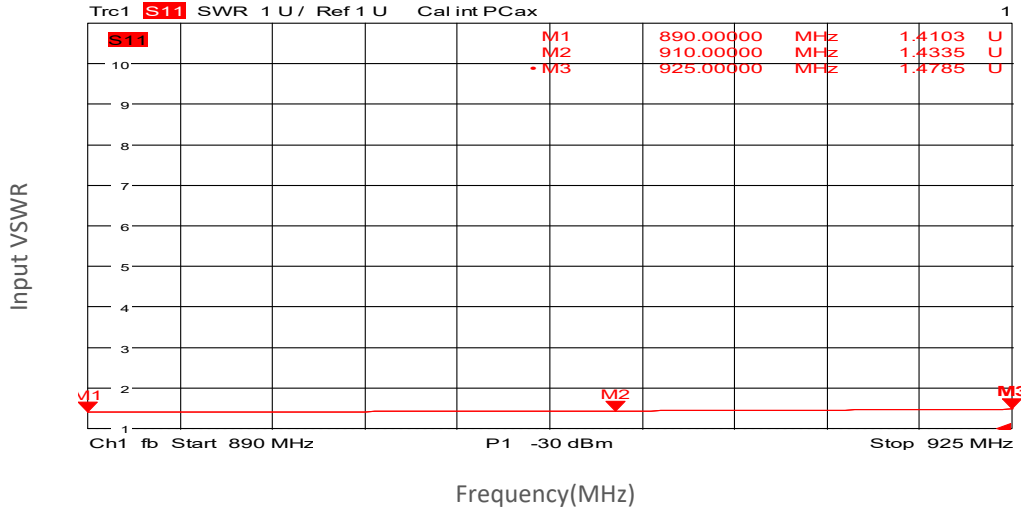
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+70	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

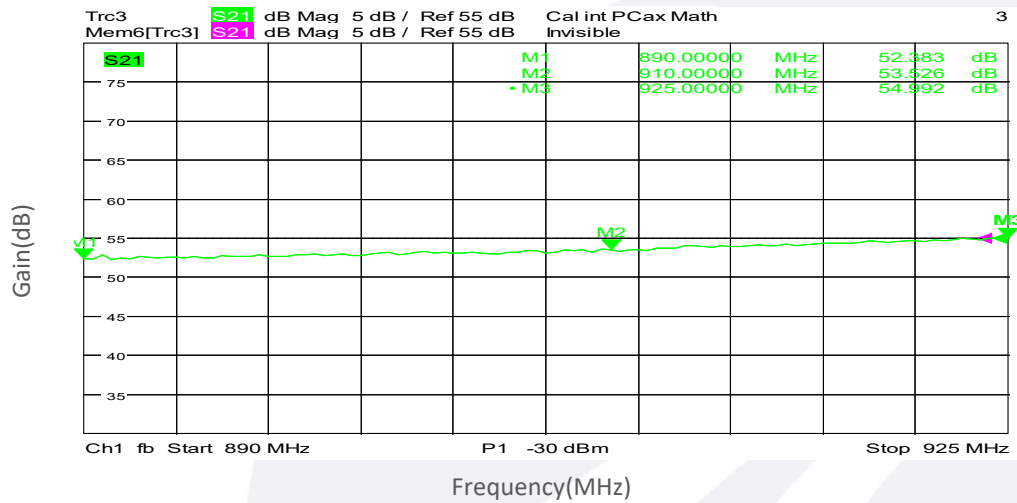
标准型号 Part Number	描述 Description	版本号Revision
TLPA890M925M-54-54	Power amplifier 890MHz-925MHz, Gain:54dB, Psat:54dBm, 48V DC, Without Heatsink	Rev.1.0
TLPA890M925M-54-54 -HS	Power amplifier 890MHz-925MHz, Gain:54dB, Psat:54dBm, 48V DC, With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

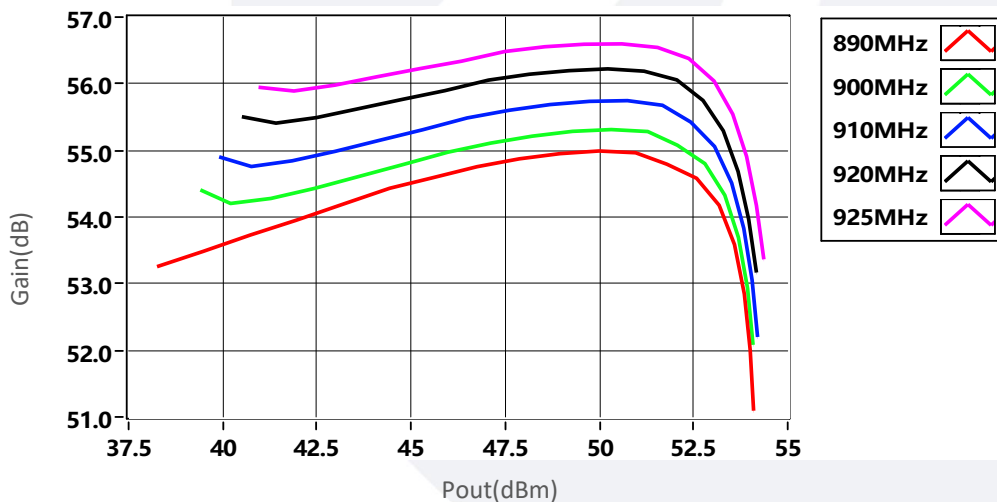
Input VSWR vs Frequency



Gain vs Frequency

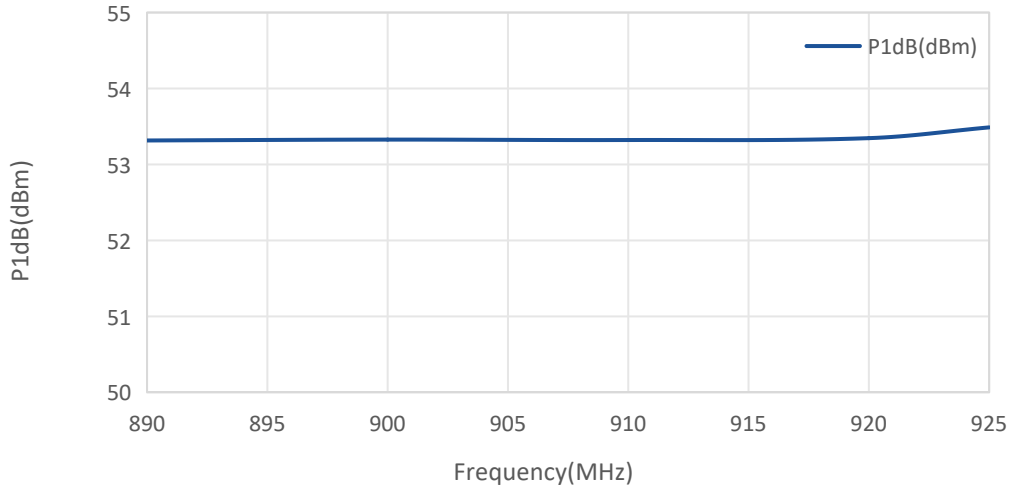


Gain vs Output Power

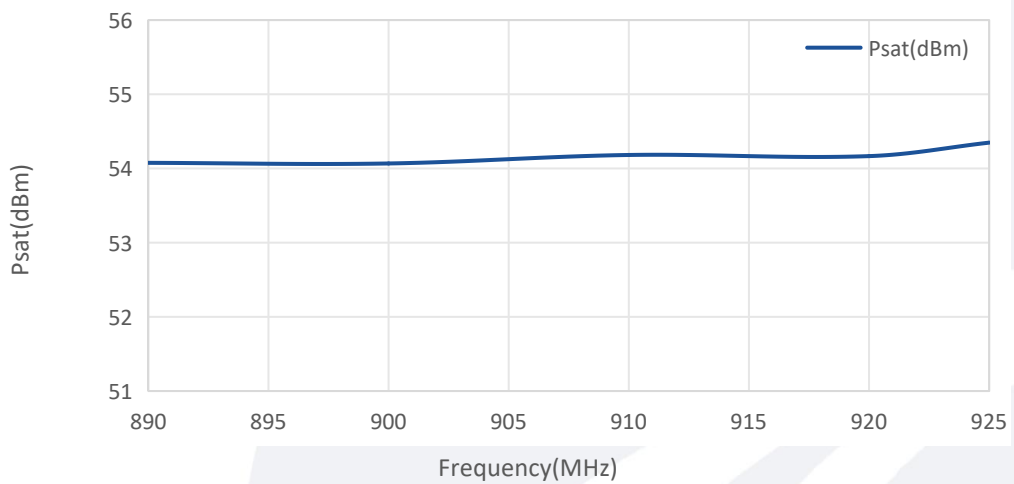


典型曲线 Typical Performance Data:

P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency

