

Power Amplifier

WR-10/92-96GHz/25dB Gain/41dBm Psat

Model: TMPA-092096-2541-10

TMPA-092096-2541-10 is a power amplifier with a typical small signal gain of 25 dB and a nominal Psat of 41 dBm across the frequency range of 92 to 96 GHz. The DC power requirement for the amplifier is +24 VDC/19 A. The input and output port configuration offers an inline structure with WR-10 waveguides and UG-387/U-M antcocking flanges.

Features:

- Frequency range: 92-96GHz
- Gain: 25dB Typ
- Output Power Psat: 41dBm Typ
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	92		96	GHz
小信号增益 Small Signal Gain	22	25	28	dB
饱和输出功率 Output Psat	40.5	41	41.5	dBm
直流电压 DC Voltage		24		V DC
直流电流 DC Supply Current		19		A

机械特性 Mechanical Specifications:

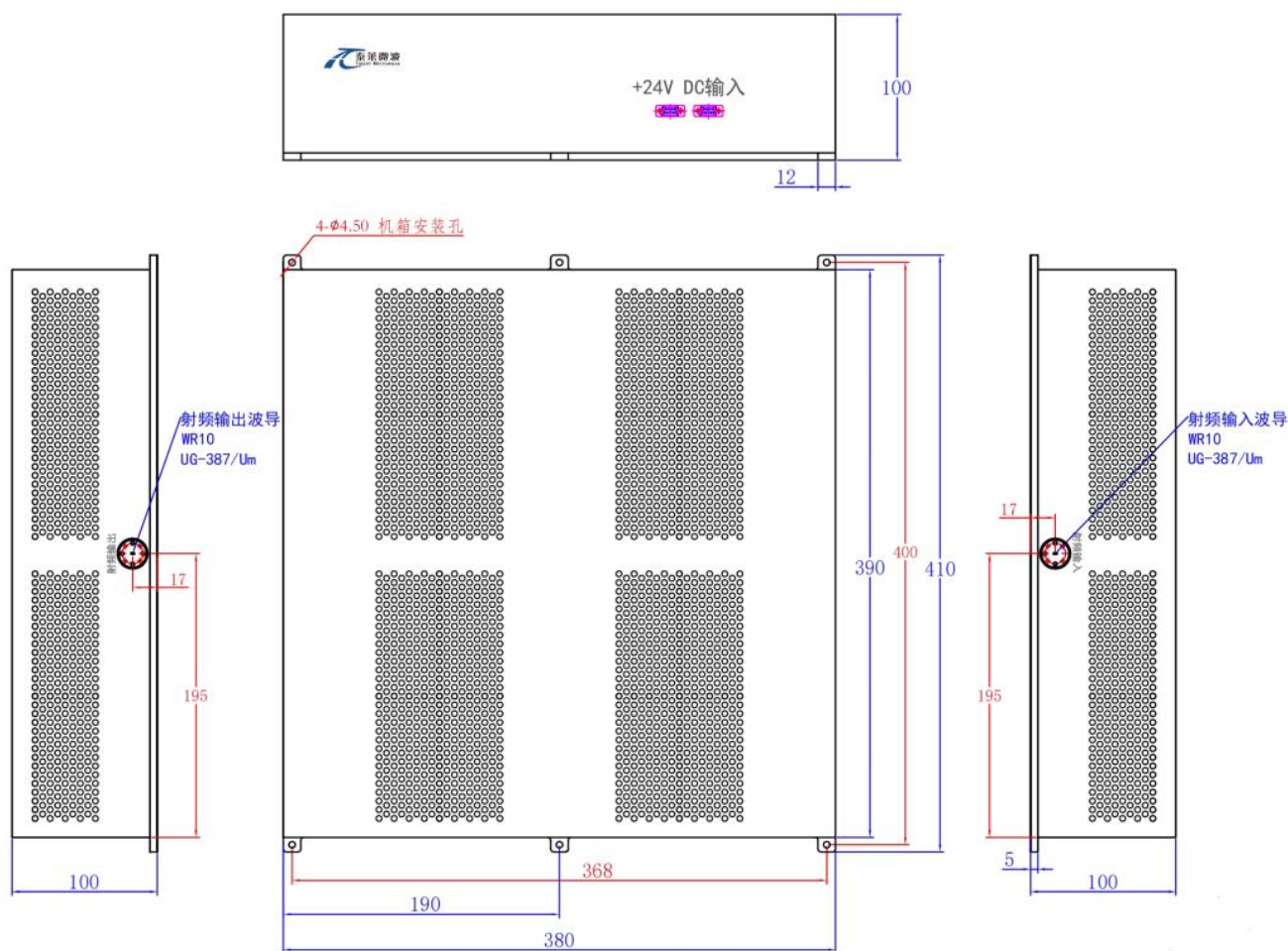
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-10/UG-387/U	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	380*410*100	mm

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	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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 Base Number	描述 Description	版本号 Revision
TMPA-092096-2541-10	Power Amplifier, 92-96GHz, Gain: 25dB Type, Psat: 41dBm Type, +24V DC,WR-10, With heasink	Rev.1.1