

## Power Amplifier

60-110GHz/25dB Gain/14dBm Psat

Model: TMPA-060110-3015-1.0

TMPA-060110-3015-1.0 is a power amplifier with a typical small signal gain of 25 dB and a nominal Psat of 14 dBm across the frequency range of 60 to 110 GHz. The DC power requirement for the amplifier is +12 VDC/125 mA. The input and output port configuration offers coax adapter structure with 1.0mm female.

### Features:

- Frequency range: 60-110GHz
- Gain: 25dB Typ
- Output Power Psat: 14dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

## 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	60		110	GHz
小信号增益 Small Signal Gain		25		dB
饱和输出功率 Output Psat		14		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		12		V DC
直流电流 DC Supply Current		125		mA
阻抗 Impedance		50		Ohms

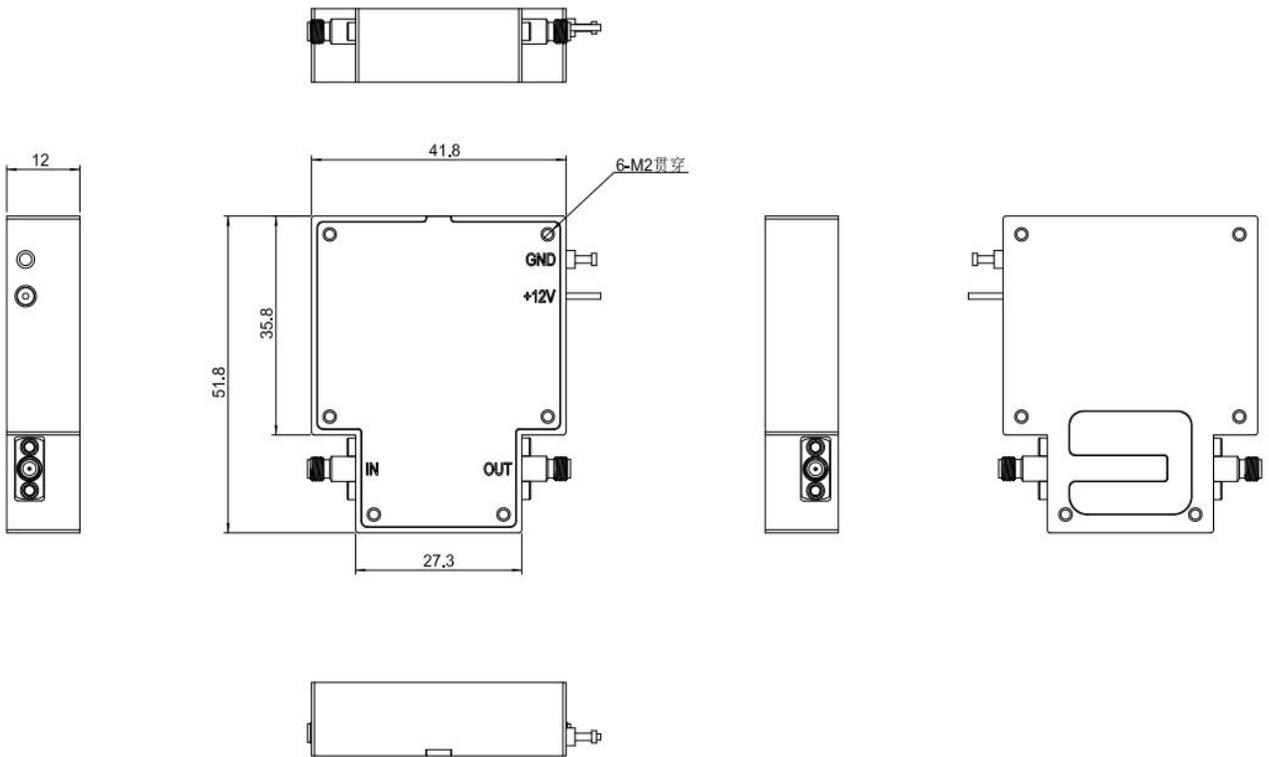
## 机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.0mm Female/1.0mm Female	

## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
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



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



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

### 温度环境 Environmental Conditions:

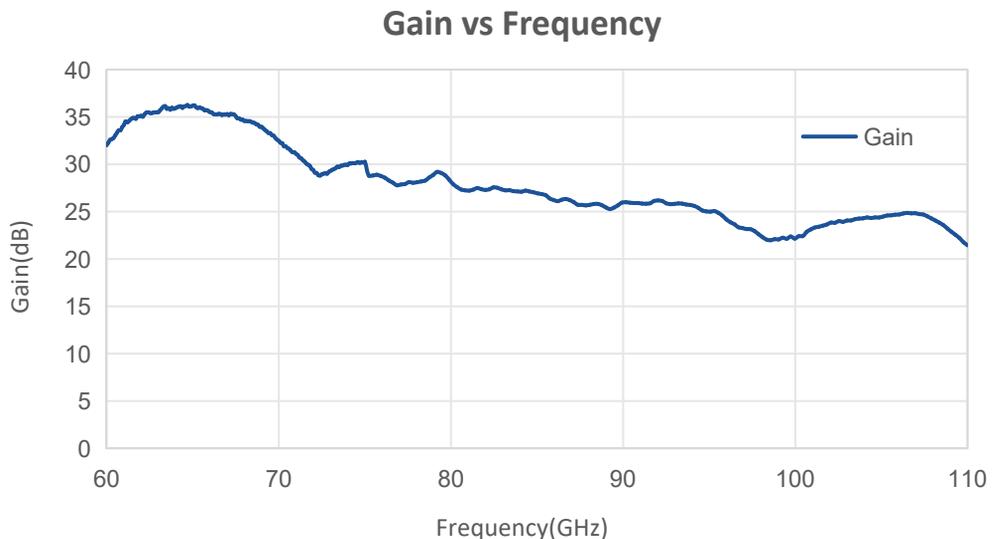
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-10		+65	°C
存储温度 Non-operating Temperature*	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

\*Note: For a wider temperature range, please consult the manufacturer.

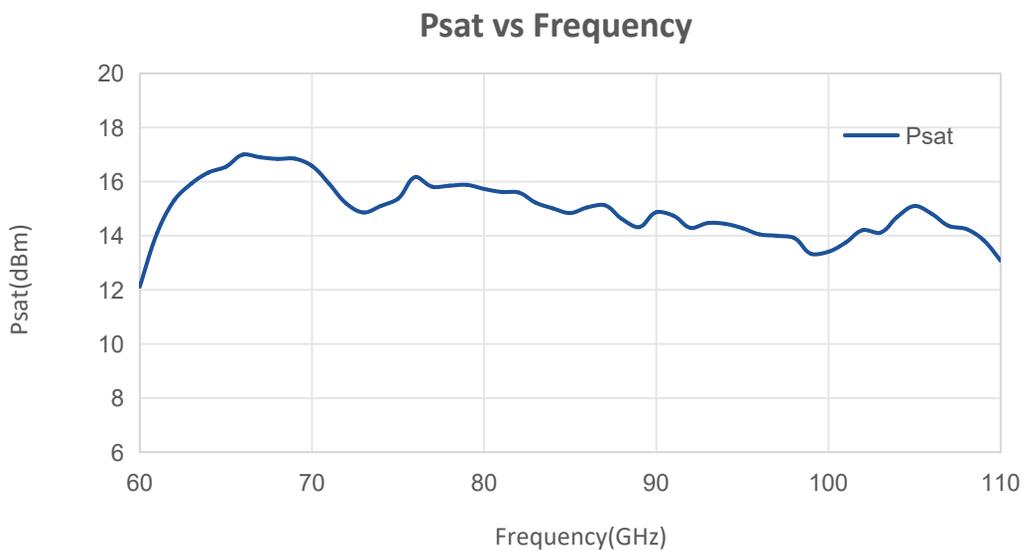
### 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TMPA-060110-3015-1.0	Power amplifier 60-110GHz, Gain:25dB,Psat:14dBm,+12V DC,Without Heatsink	Rev.1.0
TMPA-060110-3015-1.0-HS	Power amplifier 60-110GHz, Gain:25dB,Psat:14dBm,+12V DC,With Heatsink	Rev.1.0

### 典型曲线 Typical Performance Data:



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Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.