

Power Amplifier

60-110GHz/30dB Gain/8dBm Psat

Model: TMPA-060110-3505-1.0

TMPA-060110-3505-1.0 is a power amplifier with a typical small signal gain of 30 dB and a nominal Psat of 8 dBm across the frequency range of 60 to 110 GHz. The DC power requirement for the amplifier is +12 VDC/90 mA. The input and output port configuration offers coax adapter structure with 1.0mm female.

Features:

- Frequency range: 60-110GHz
- Gain: 30dB Typ
- Output Power Psat: 8dBm 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		30		dB
饱和输出功率 Output Psat		8		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		90		mA
阻抗 Impedance		50		Ohms

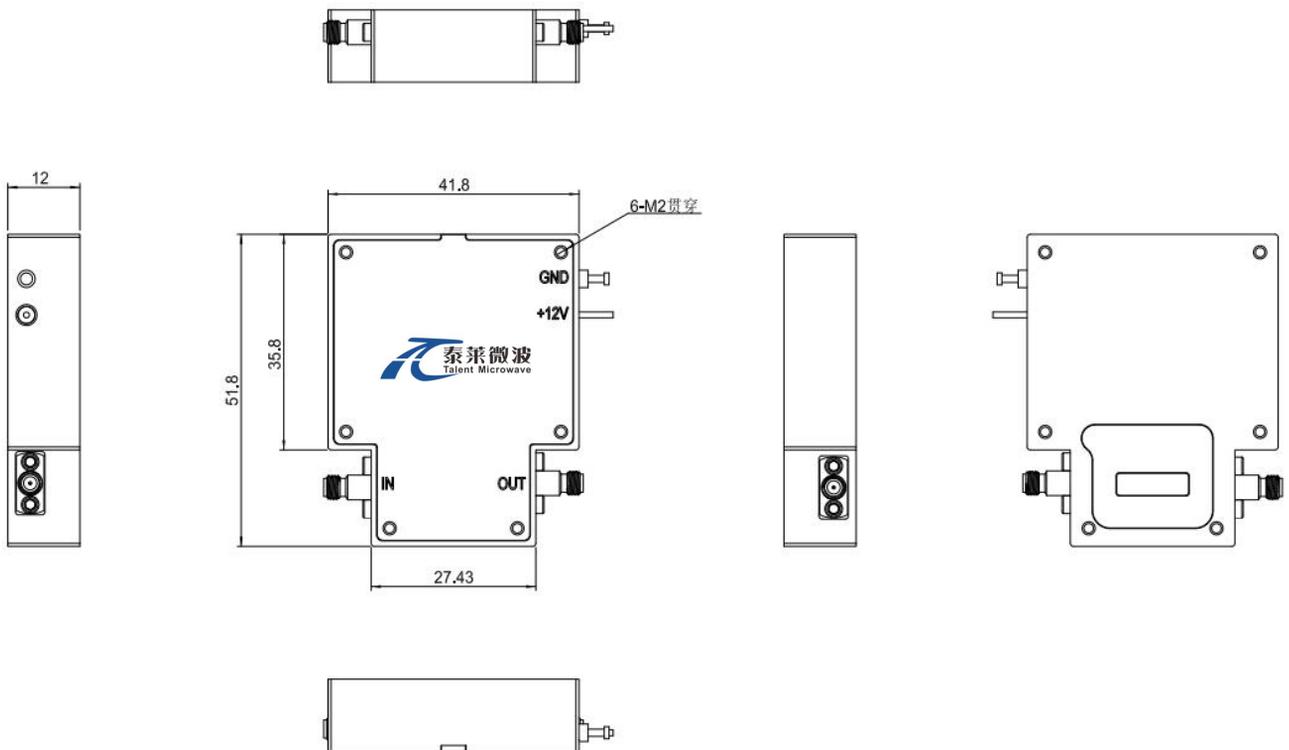
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.0mm Female/1.0mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	41.8*51.8*12	mm

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			

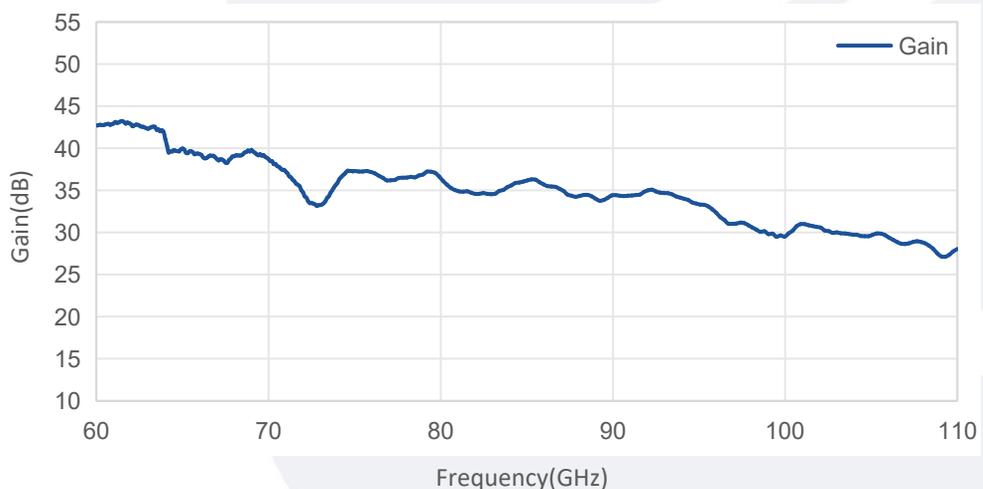
*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TMPA-060110-3505-1.0	Power amplifier 60-110GHz, Gain:30dB,Psat:8dBm,+12V DC,Without Heatsink	Rev.1.0
TMPA-060110-3505-1.0-HS	Power amplifier 60-110GHz, Gain:30dB,Psat:8dBm,+12V DC,With Heatsink	Rev.1.0

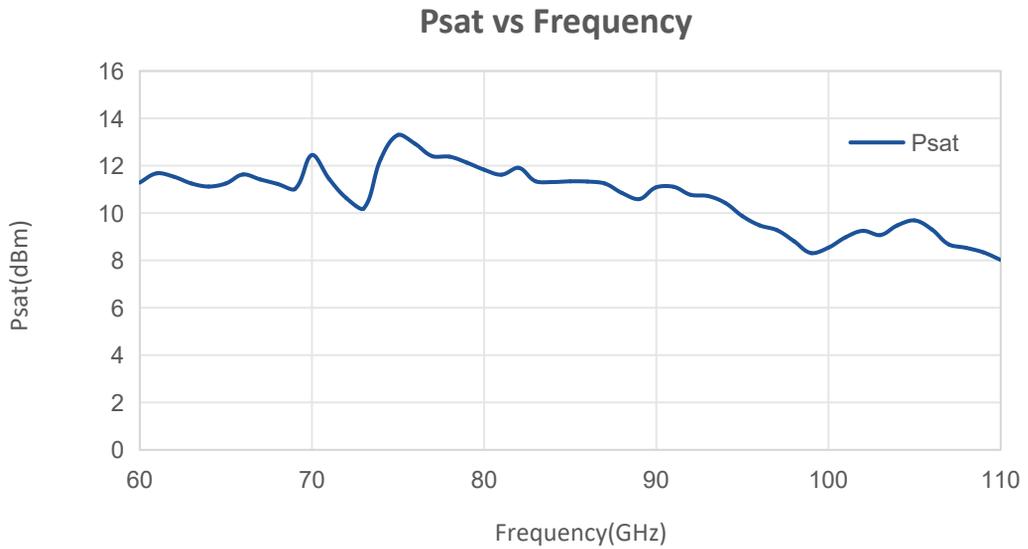
典型曲线 Typical Performance Data:

Gain vs Frequency



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.

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