

**Model:TMAM-086106-0813-10**
**Active Frequency Multiplier,  
 X8,86-106GHz, 13dBm Output Power**
**Feature:**

- Output Frequency:86-106GHz
- Output Power: 13dBm Typ
- Low power consumption

**电气特性 Electrical Specifications:**

参数 Parameter	Min	Typ	Max	单位 Units
输出频率 Output Frequency	86		106	GHz
输出功率 Output Power	12	13	16	dBm
输入频率 Input Frequency	10.75		13.25	GHz
输入功率 Input Power		2		dBm
倍频次数 Multiply Factor		8		
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
供电电压 DC Voltage		5		V
供电电流 DC Supply Current		290		mA

**机械特性 Mechanical Specifications:**

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	WR-10/UG-387/U	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	45*34*24	mm

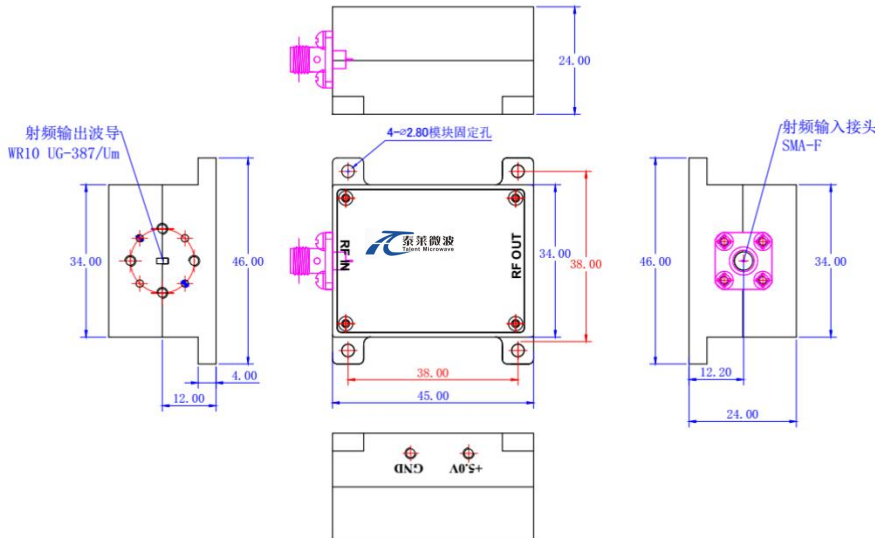
**绝对最大值 Absolute Maximum Ratings:**

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


**Available 220V System  
 Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

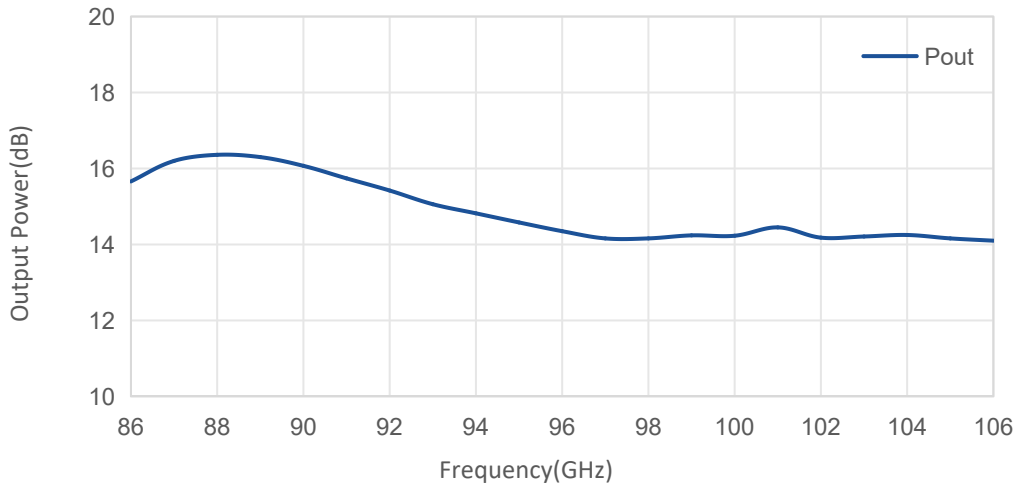
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-25		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

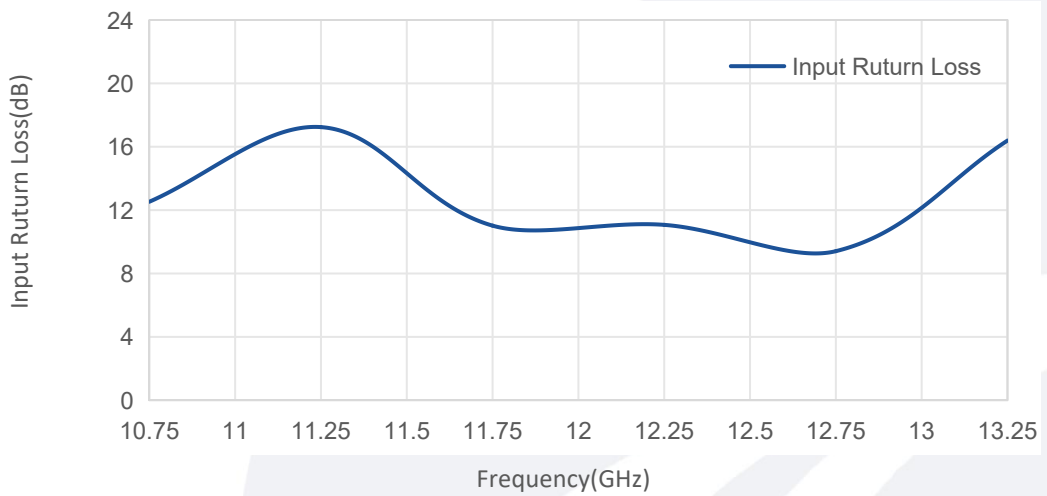
标准型号 Part Number	描述 Description	版本号 Revision
TMAM-086106-0813-10	Active Multiplier,X8,86-106GHz, Output Power:13dBm,WR-10/UG-387/U,SMA Female	Rev.1.1

典型曲线 Typical Performance Data:

Output Power vs Frequency



Input Return Loss vs Frequency



Output Return Loss vs Frequency

