泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Active Frequency Multiplier

X4/400MHz/10dBm Output Power

Model: TLAM-400M-0410-S

TLAM-400M-0410-S is an active X4 frequency multiplier. The multiplier has an input frequency of 100 MHz with a typical input power of +9 dBm and an output frequency of 400 MHz with a typical output power of +10 dBm. The DC power requirement for the multiplier is +12V DC/120 mA. The input and output port configuration are female SMA connectorr.

Features:

- Output Frequency: 400MHz
- Output Power: 10dBm Typ
- Low power consumption
- 50 Ohm Matched Input / Output

Applications:

- Synthesizers
- Local oscillators

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
输出频率 Output Frequency		400		MHz
输出功率 Output Power		10		dBm
输入频率 Input Frequency		100		MHz
输入功率 Input Power		9		dBm
倍频次数 Multiply Factor		4		
供电电压 DC Voltage	8	12	15	V
供电电流 DC Supply Current		120		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	SMA Female	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	TBD	mm

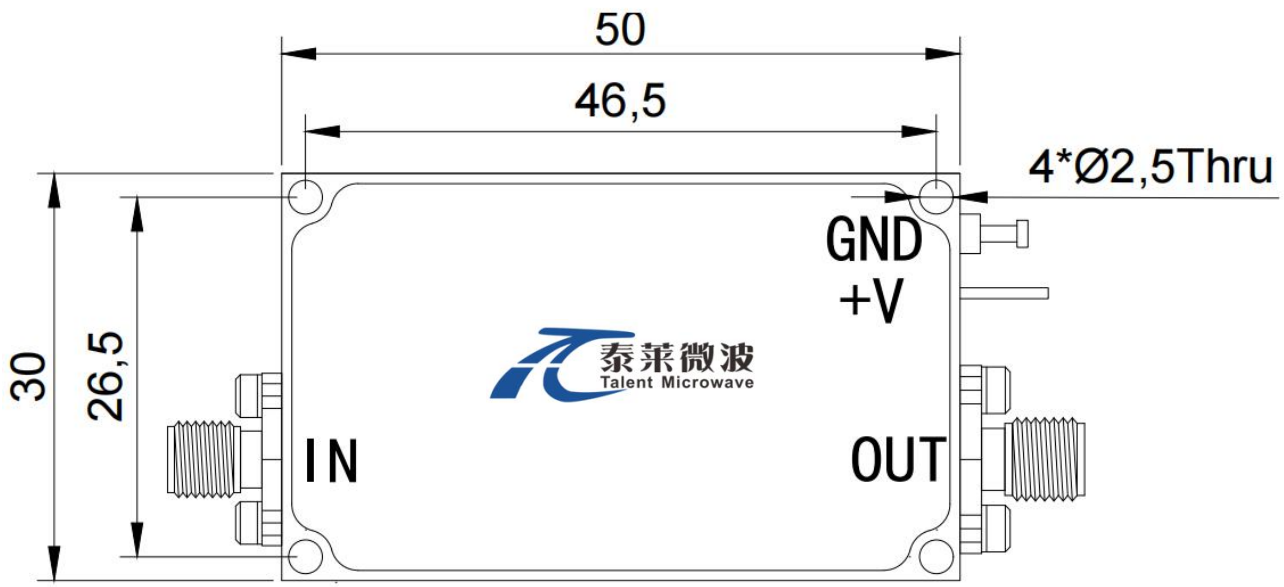
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+10 dBm
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.

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+70	℃
存储温度 Non-operating Temperature	-55		+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
TLAM-400M-0410-S	Active Multiplier,X4, 400MHz , +10 dBm Output Power, SMA Female	Rev.1.0