泰莱微波 Talent Microwave

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Active Frequency Multiplier

X2/ 20-60GHz /16dBm Output Power/1.85mm Female Model: TLAM-2060-0216-V

TLAM-2060-0216-V is an active X2 frequency multiplier. The multiplier has an input frequency of 10 to 30 GHz with a typical input power of -2 dBm and an output frequency of 20 to 60 GHz with a minimum output power of +16 dBm. The DC power requirement for the multiplier is +12 V DC/120 mA. The input port configuration is female 2.92mm connector. The output port configuration is female 1.85mm connector.

Features:

- Output Frequency:20-60GHz
- Output Power :16 dBm Min
- 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	20		60	GHz
输出功率 Output Power	+16			dBm
输入频率 Input Frequency	10		26	GHz
输入功率 Input Power	-6	-2	+2	dBm
倍频次数 Multiply Factor		2		
谐波 Harmonic		-15		dBc
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	1.85mm Female	
输入接口 Input Connector	2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size		mm

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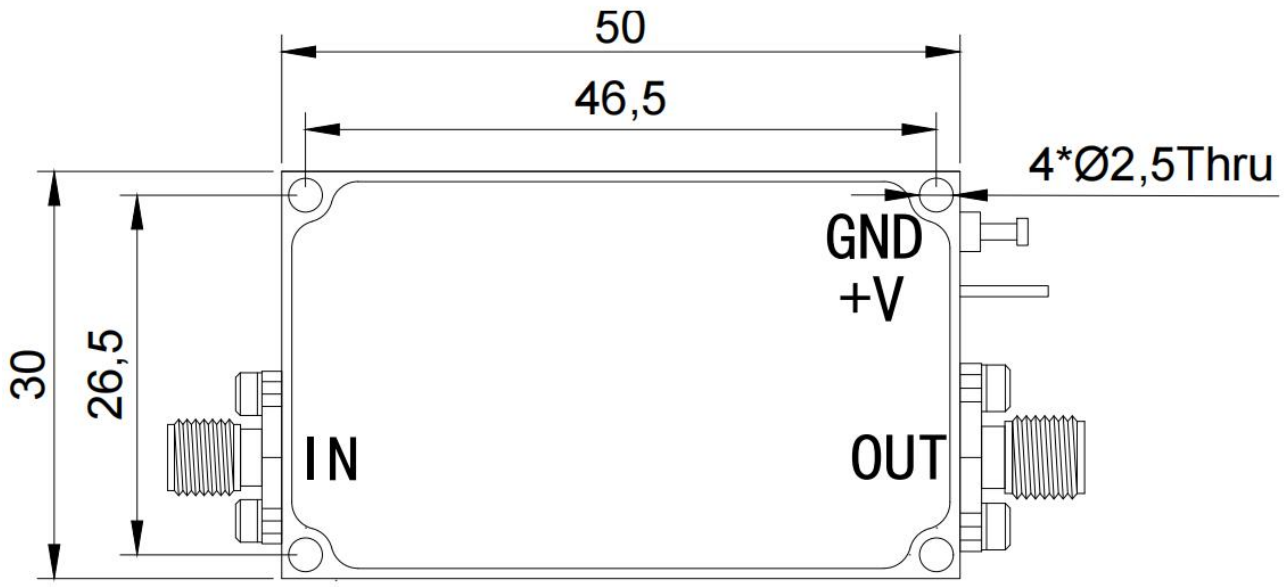
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



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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	-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 Desciption	版本号 Revision
TLAM-2060-0216-V	Active Multiplier X2, 2060 GHz ,+16 dBm Output Power,1.85mm Female	Rev.1.0