

Active Frequency Multiplier

X4/32-50GHz/0dBm Output Power

Model: TLAM-3250-0400-2.4

TLAM-3250-0400-2.4 is an active X4 frequency multiplier. The multiplier has an input frequency of 8 to 12.5 GHz with a typical input power of -10 dBm and an output frequency of 32 to 50 GHz with a typical output power of 0 dBm. The DC power requirement for the multiplier is +12 V DC/90 mA. The input port configuration is female SMA connector. The output port configuration is female 2.4 connector.

Features:

- Output Frequency: 32-50GHz
- Output Power: 0dBm 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	32		50	GHz
输出功率 Output Power		0		dBm
输入频率 Input Frequency	8		12.5	GHz
输入功率 Input Power	-10		0	dBm
倍频次数 Multiply Factor		4		
基波 1st Harmonic		-20		dBc
2次谐波 2nd armonic		-10		dBc
3次谐波 3rd Harmonic		-10		dBc
供电电压 DC Voltage	+8	+12	+15	V
供电电流 DC Supply Current		90		mA

机械特性 Mechanical Specifications:

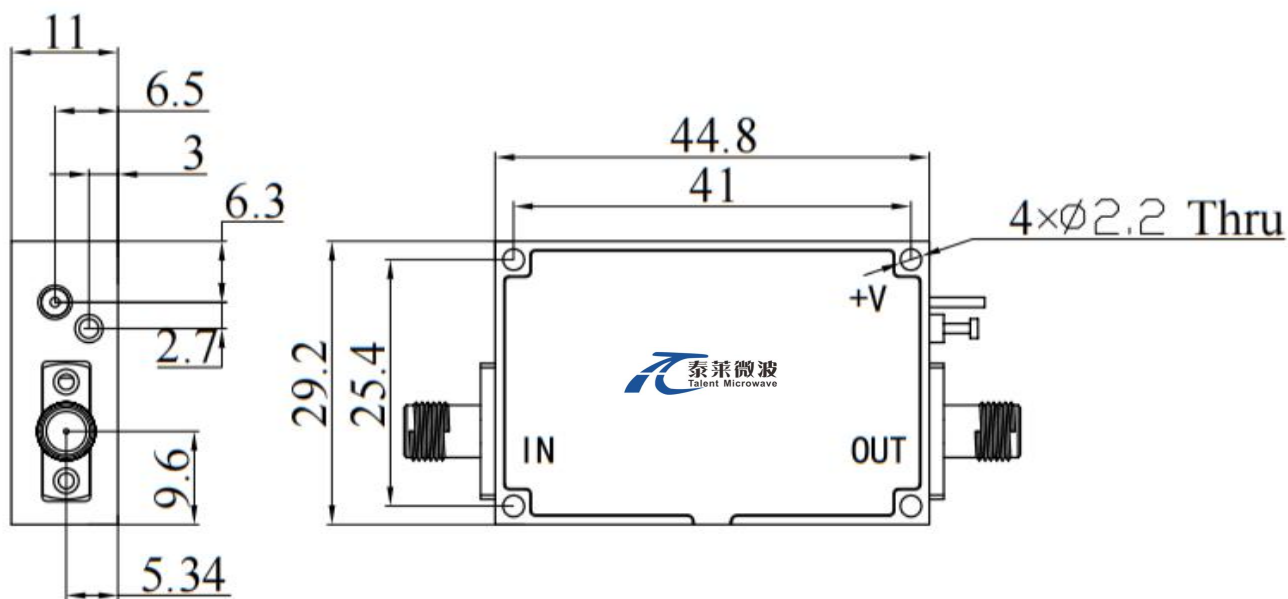
参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	2.4mm Female	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm

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	+5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



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

温度环境 Environmental Conditions:

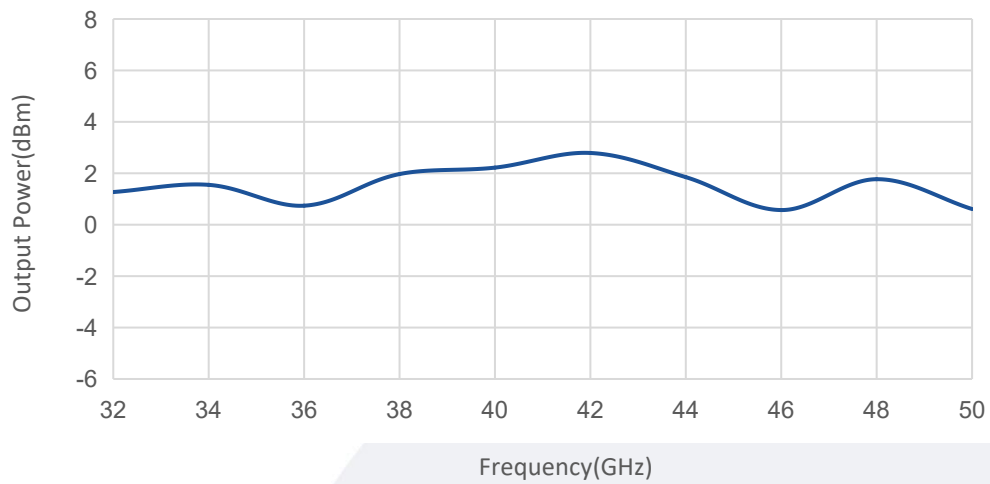
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

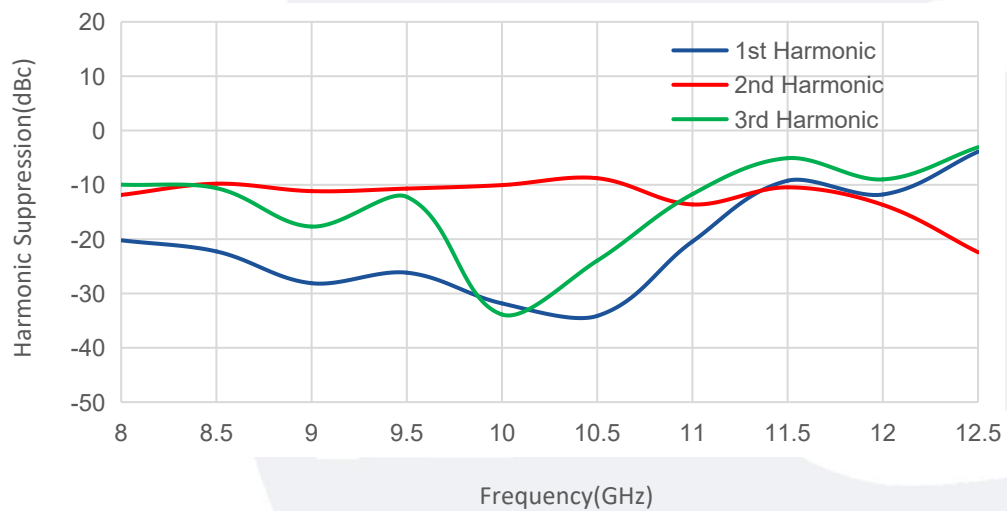
标准型号 Base Number	描述 Description	版本号 Revision
TLAM-3250-0400-2.4	Active Multiplier,X4, 32-50GHz ,0dBm Output Power,SMA Female,2.4mm Female	Rev.1.1

典型曲线 Typical Performance Data:

Output Power vs Frequency



Harmonic Suppression 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.