泰莱微波
Talent Microwave

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Active Frequency Multiplier

1.85mm/X3/36-57GHz /27dBm Output Power Model: TLAM-036057-0327-V

TLAM-036057-0327-V is an active X4 frequency multiplier. The multiplier has an input frequency of 12 to 19 GHz with a typical input power of +5 dBm and an output frequency of 36 to 57 GHz with a typical output power of +27 dBm. The DC power requirement for the multiplier is +12 V DC/580 mA. The input port configuration is a female SMA connector and the output port configuration is a female 1.85mm connector.

Features:

- Output Frequency:36-57GHz
- Output Power :27dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
输出频率 Output Frequency	36		57	GHz
输出功率 Output Power		27		dBm
输入频率 Input Frequency	12		19	GHz
输入功率 Input Power	3	5	7	dBm
倍频次数 Multiply Factor		3		
供电电压 DC Voltage		12		V
供电电流 DC Supply Current		580		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	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	46*30*14	mm

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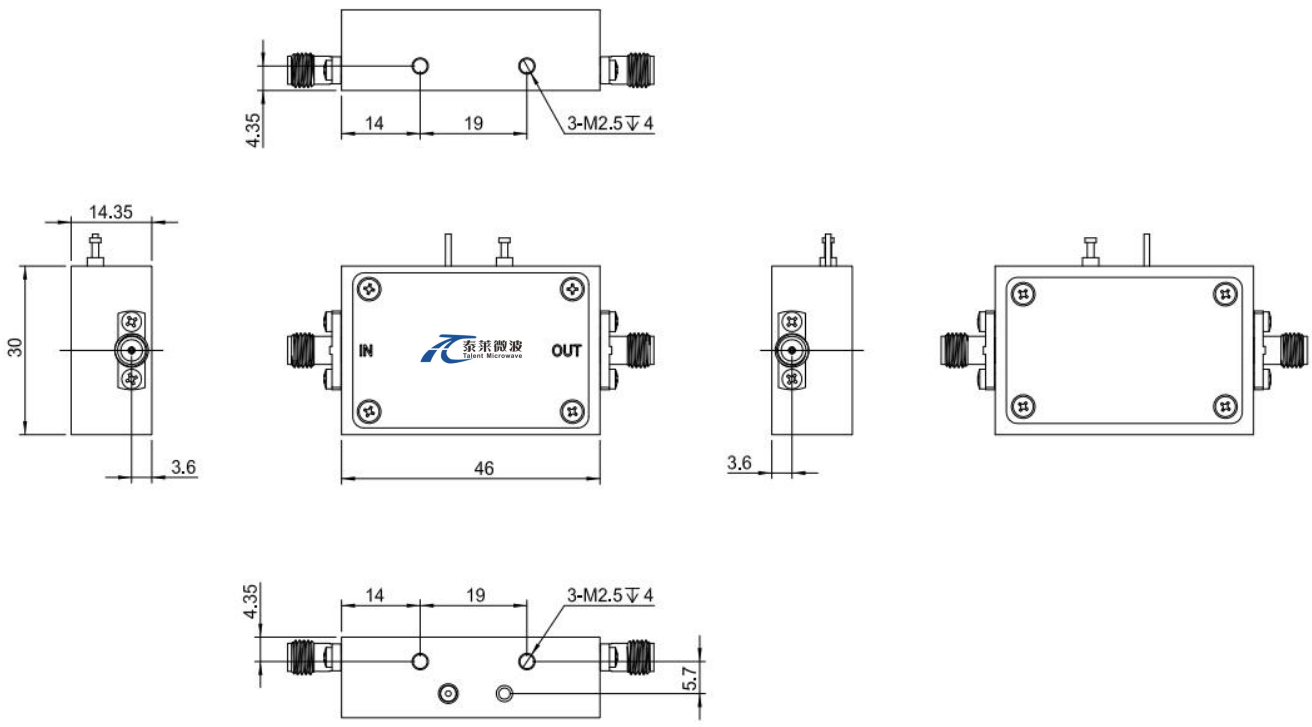
绝对最大值 Absolute Maximum Ratings:

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



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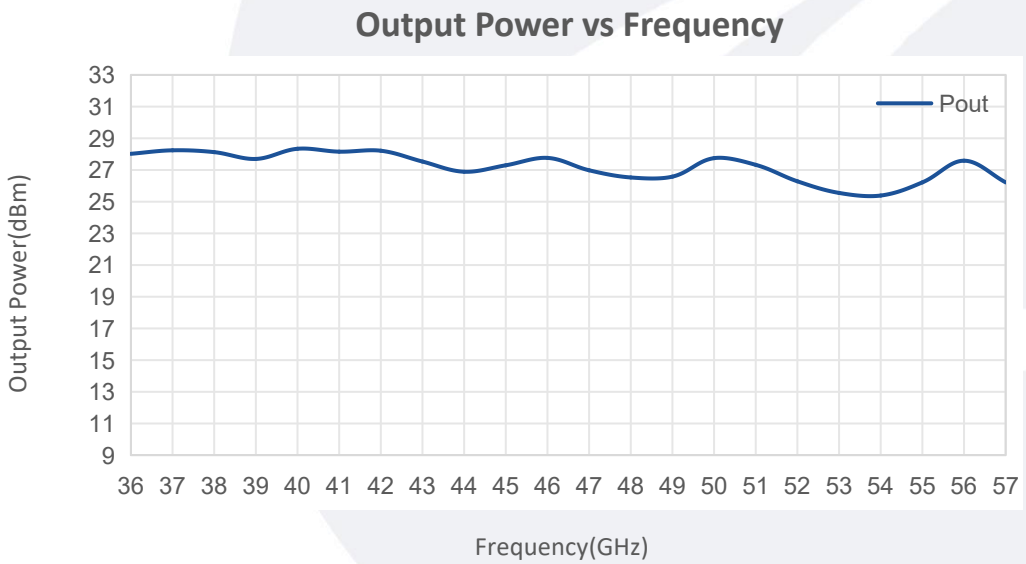
温度环境 Environmental Conditions:

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	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 Base Number	描述 Desciption	版本号 Revision
TLAM-036057-0327-V	Active Multiplier,X3,36-57GHz, Output Power:27dBm,1.85mm Female,SMA Female	Rev.1.1

典型曲线 Typical Performance Data:



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.