泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Active Frequency Multiplier

X2/40-67GHz/15dBm Output Power

Model: TLAM-040067-0219-1.85

TLAM-040067-0219-1.85 is an active X2 frequency multiplier. The multiplier has an input frequency of 20 to 33.5 GHz with a typical input power of -1 dBm and an output frequency of 40 to 67 GHz with a typical output power of +15 dBm. The DC power requirement for the multiplier is +12V DC/150 mA. The input port configuration is female 2.92mm connector and output port configuration is female 1.85mm connector.

Features:

- Output Frequency: 40-67GHz
- Output Power: 15dBm 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	40		67	GHz
输出功率 Output Power		15		dBm
输入频率 Input Frequency	20		33.5	GHz
输入功率 Input Power		-1		dBm
倍频次数 Multiply Factor		2		
谐波抑制 Harmonic Suppression		20		dBc
供电电压 DC Voltage		12		V
供电电流 DC Supply Current		150		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

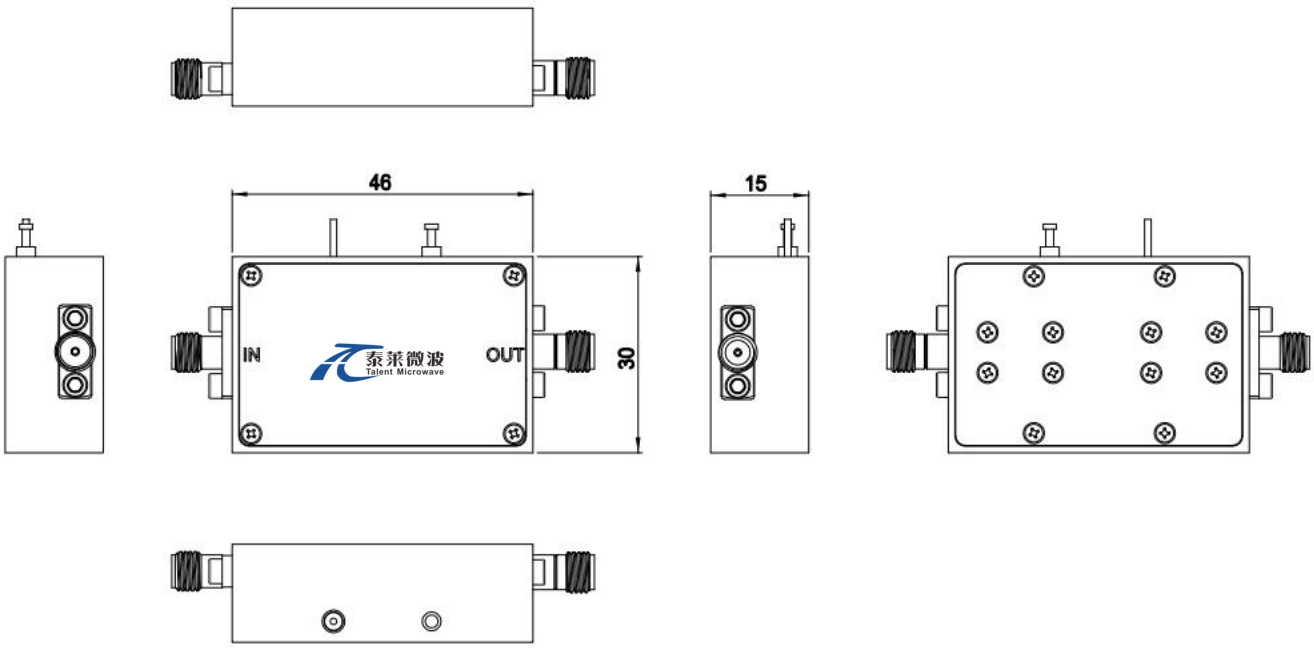
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	TBD
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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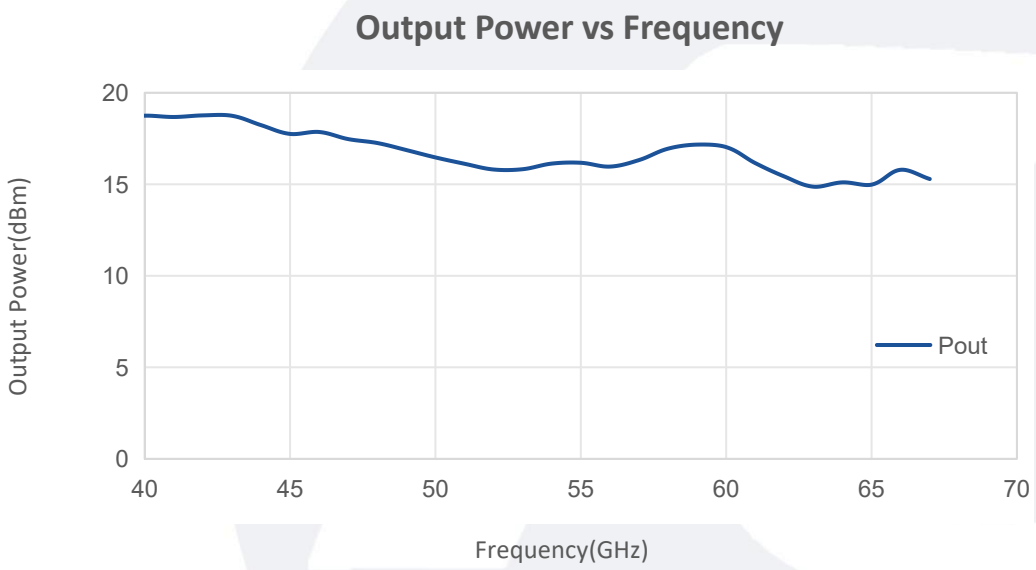
温度环境 Environmental Conditions:

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-040067-0219-1.85	Active Multiplier,X2, 40-67GHz , +15dBm Output Power,1.85mm Female	Rev.1.0

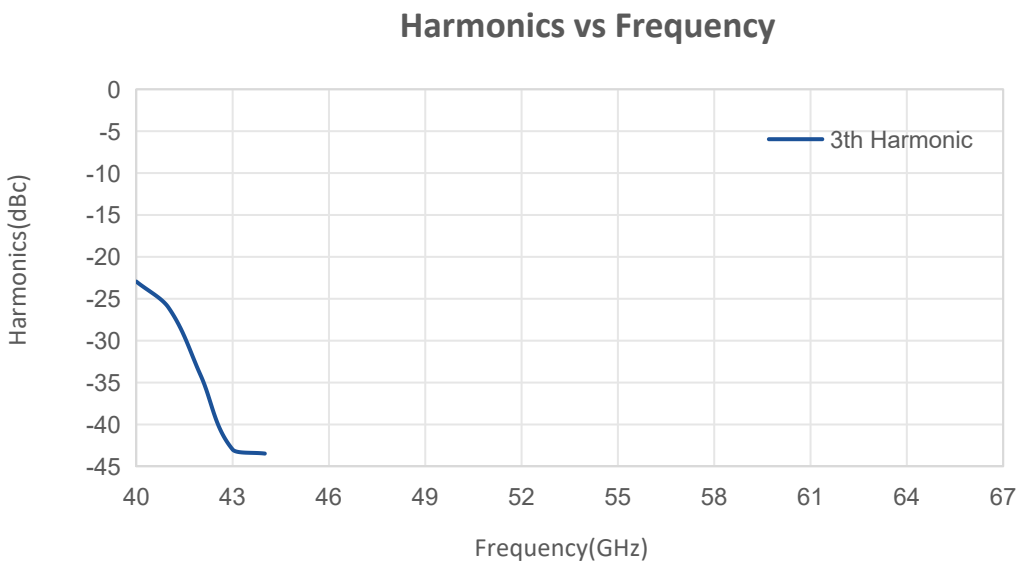
典型曲线 Typical Performance Data:



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.

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