Turpanic Co, Ltd
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Active Frequency Multiplier

X2/ 1-7GHz /15dBm Output Power/SMA Model: TLAM-0107-0215-S

TLAM-0107-0215-S is an active X2 frequency multiplier. The multiplier has an input frequency of 0.5 to 3.5 GHz with a typical input power of -2 dBm and an output frequency of 1 to 7 GHz with a typical output power of +15 dBm. The DC power requirement for the multiplier is +12 V DC/28 mA. The input/output port configuration is female SMA connector.

Features:

- Output Frequency:1-7GHz
- 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	1		7	GHz
输出功率 Output Power	+13	+15		dBm
输入频率 Input Frequency	0.5		3.5	GHz
输入功率 Input Power	-3	-2	3	dBm
倍频次数 Multiply Factor		2		
基波 1st Harmonic		-15		dBc
3次谐波 3rd Harmonic		-13		dBc
供电电压 DC Voltage	+8	+12	+15	V
供电电流DC Supply Current		28		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	SMA Female	

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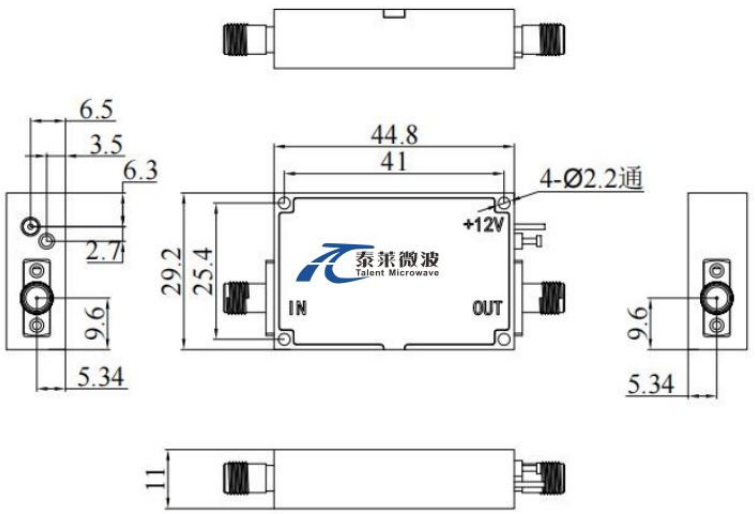
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+3 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm



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			

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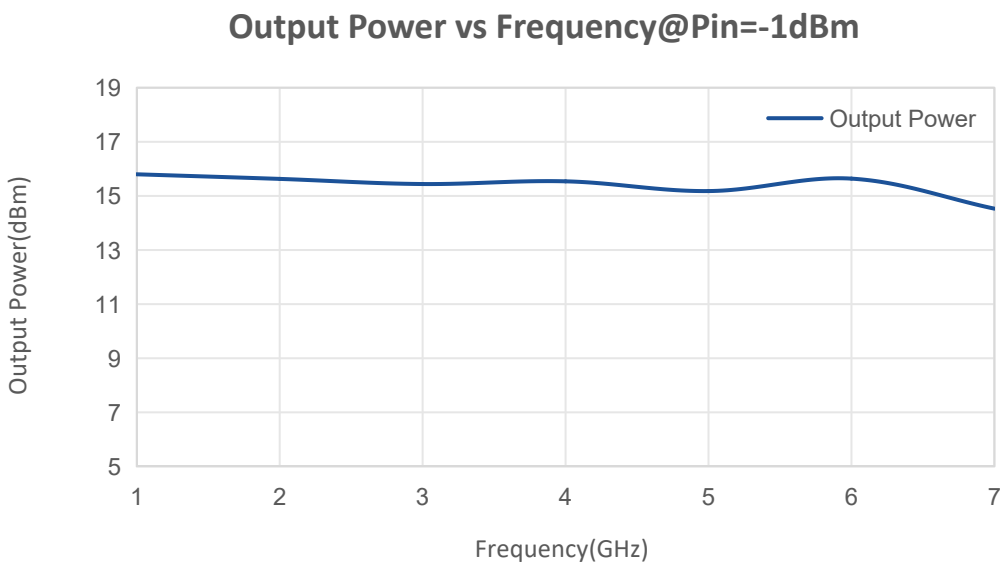
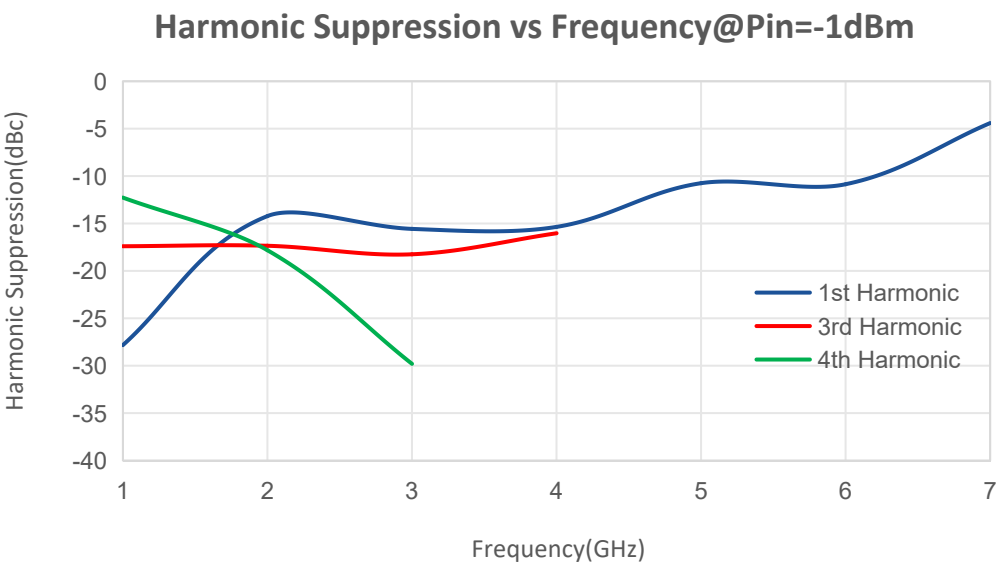
订货信息 Ordering Information:

标准型号 Base Number	描述 Desciption	版本号 Revision
TLAM-0107-0215-S	Active Multiplier X2, 1-7 GHz ,+15 dBm Output Power,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.