泰莱微波 Talent Microwave

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Passive Multiplier

X2/4-12GHz /1dBm Output Power Model: TLPM-0412-0201-K

TLPM-0412-0201-K is a X2 passive multiplier. The multiplier has an input frequency of 2 to 6 GHz with a typical input power of 15 dBm and an output frequency of 4 to 12 GHz with a typical output power of 1 dBm. The input and output port configuration is 2.92mm connector.

Features:

- Output Frequency: 4-12GHz
- Output Power : 1dBm 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	4		12	GHz
输出功率 Output Power		1		dBm
输入频率 Input Frequency	2		6	GHz
输入功率 Input Power		15		dBm
倍频次数 Multiply Factor		2		
基波抑制 1st Harmonic Suppression		-33		dBc
3rd谐波抑制 3rd Harmonic Suppression		-35		dBc
4th谐波抑制 4th Harmonic Suppression		-20		dBc
基波隔离 1st Harmonic Isolation		-46		dBc
3rd谐波隔离 3rd Harmonic Isolation		-48		dBc
4th谐波隔离 4th Harmonic Isolation		-34		dBc

The value of harmonic isolation is compared to input power and harmonic isolation is compared to output power.

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	2.92mm Female	
输入接口 Input Connector	2.92mm Male	
长度 Length	42.2	mm

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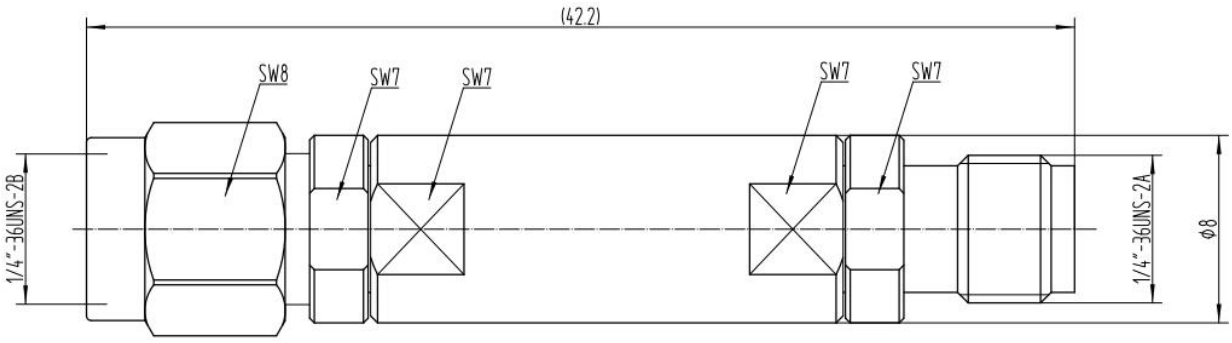
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+22 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			

订货信息 Ordering Information:

标准型号 Base Number	描述 Desciption	版本号 Revision
TLPM-0412-0201-S	Passive Multiplier , X2, 4-12GHz , 1 dBm Output Power,2.92mm	Rev.1.1

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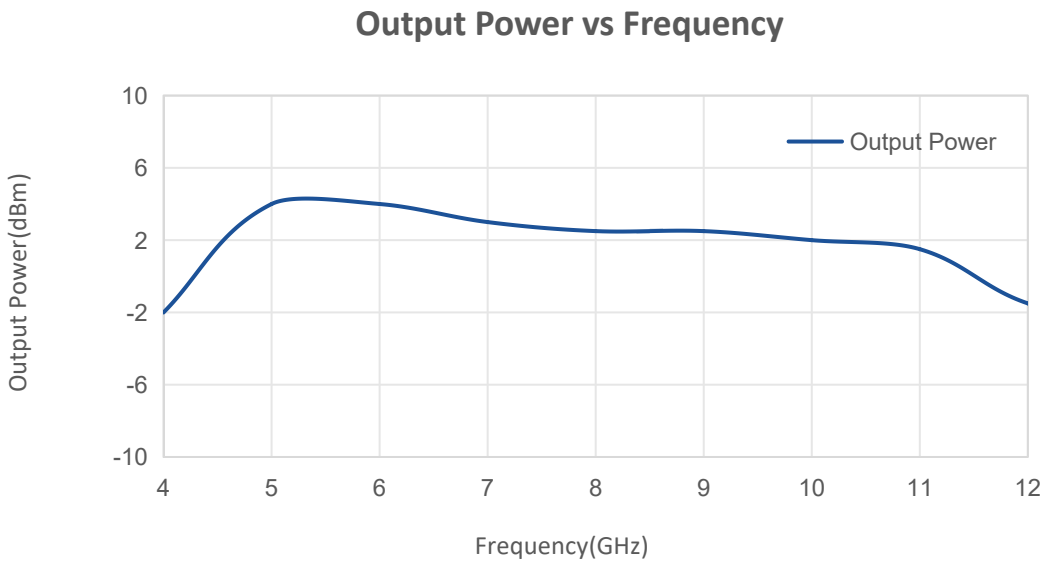
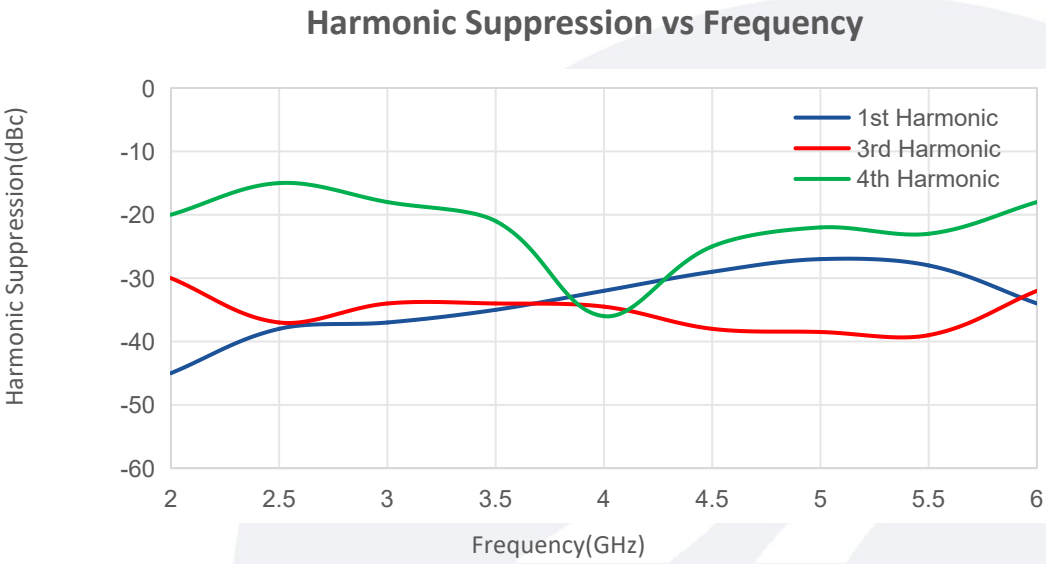
典型曲线 Typical Performance Data:





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.