

Passive Multiplier

X2/4-15GHz/2dBm Output Power

Model: TLPM-0415-0202-K

TLPM-0415-0202-K is a X2 passive multiplier. The multiplier has an input frequency of 2 to 7.5 GHz with a typical input power of 14 dBm and an output frequency of 4 to 15 GHz with a typical output power of 2 dBm. The input and output ports configuration are 2.92mm connector.

Features:

- Output Frequency: 4-15GHz
- Output Power : 2dBm 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		15	GHz
输出功率 Output Power		2		dBm
输入频率 Input Frequency	2		7.5	GHz
输入功率 Input Power	7	14	20	dBm
倍频次数 Multiply Factor		2		
基波抑制 1st Harmonic Suppression		-27		dBc
3rd谐波抑制 3rd Harmonic Suppression		-36		dBc
4th谐波抑制 4th Harmonic Suppression		-15		dBc
基波隔离 1st Harmonic Isolation		-38		dBc
3rd谐波隔离 3rd Harmonic Isolation		-47		dBc
4th谐波隔离 4th Harmonic Isolation		-25		dBc

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

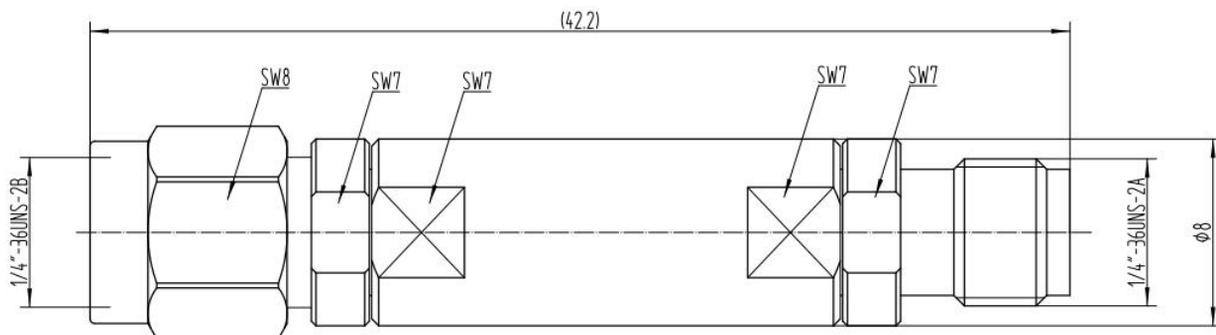
机械特性 Mechanical Specifications:

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

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+29 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:

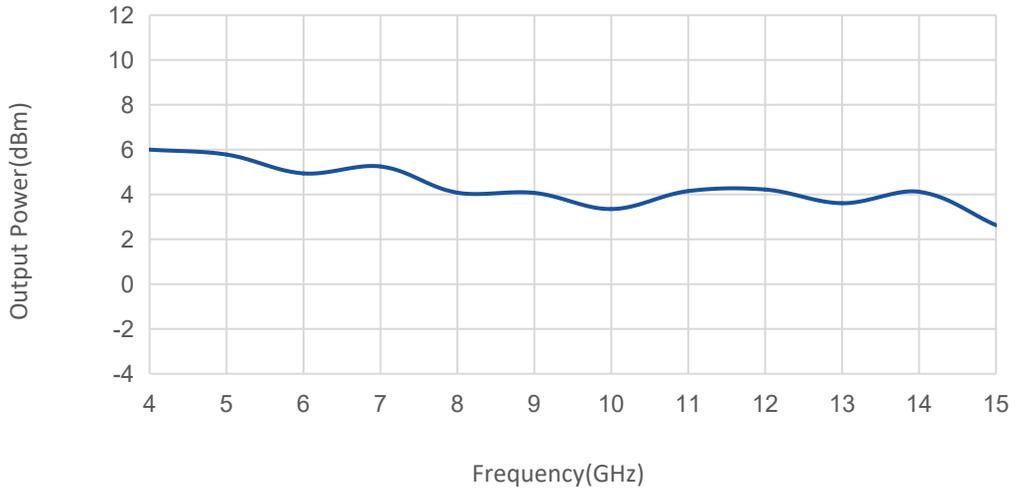
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

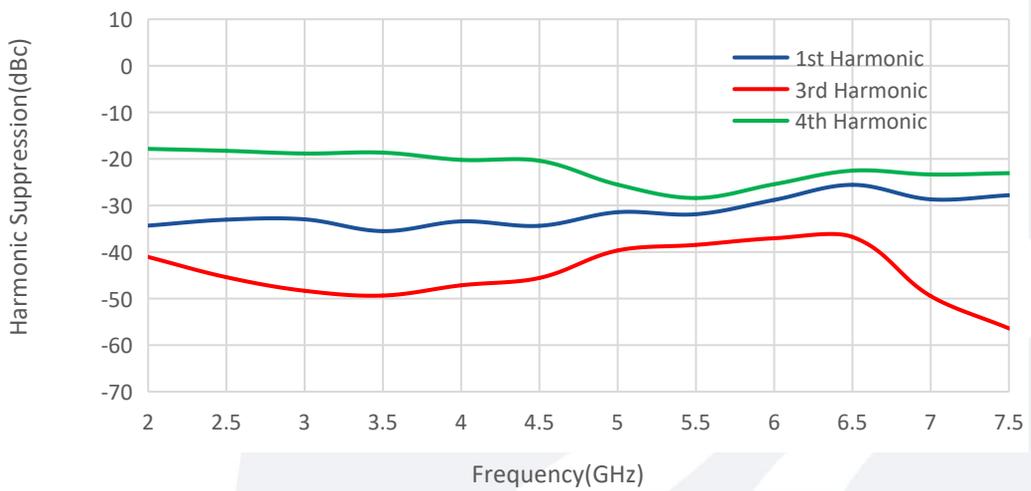
标准型号 Base Number	描述 Description	版本号 Revision
TLPM-0415-0202-K	Passive Multiplier , X2, 4-15GHz , 2dBm Output Power, 2.92mm	Rev.1.1

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.