

Active Frequency Multiplier X2/4-16GHz/15dBm Output Power

Model: TLAM-0416-0215-S

TLAM-0416-0215-S is an active X2 frequency multiplier. The multiplier has an input frequency of 2 to 8 GHz with a typical input power of +5 dBm and an output frequency of 4 to 16 GHz with a typical output power of +15 dBm. The DC power requirement for the multiplier is +12 V DC/65 mA. The input/output port configuration is female SMA connector.

Features:

- Output Frequency: 4-16GHz
- 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	4		16	GHz
输出功率 Output Power		+15		dBm
输入频率 Input Frequency	2		8	GHz
输入功率 Input Power		5	10	dBm
倍频次数 Multiply Factor		2		
基波 1st Harmonic		-18		dBc
3次谐波 3rd Harmonic		-20		dBc
供电电压 DC Voltage	+8	+12	+15	V
供电电流 DC Supply Current		65		mA

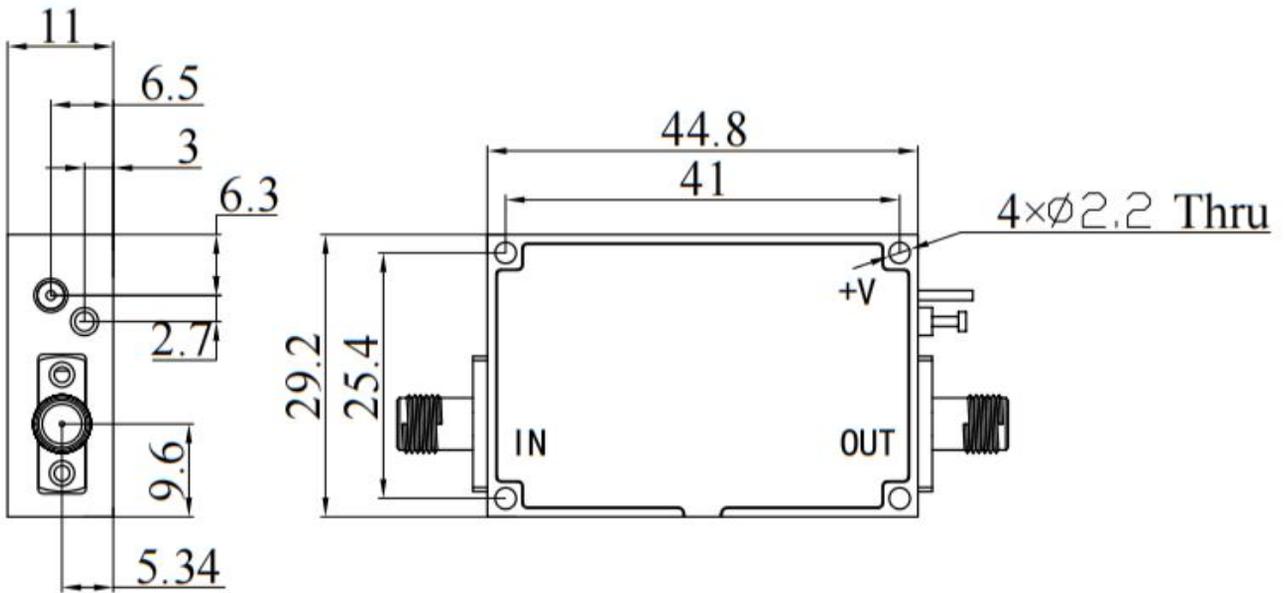
机械特性 Mechanical Specifications:

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

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	+18 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing: Unit:mm





ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

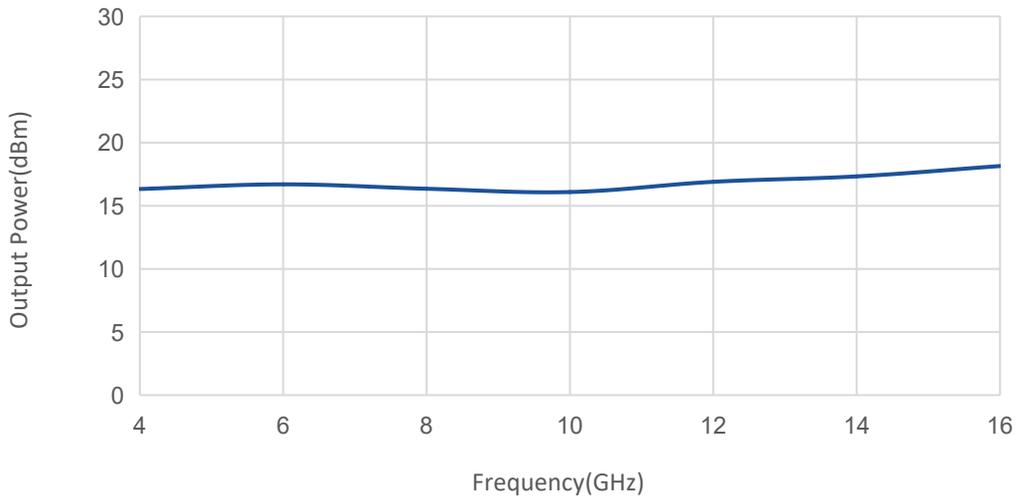
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		10,000		feet

订货信息 Ordering Information:

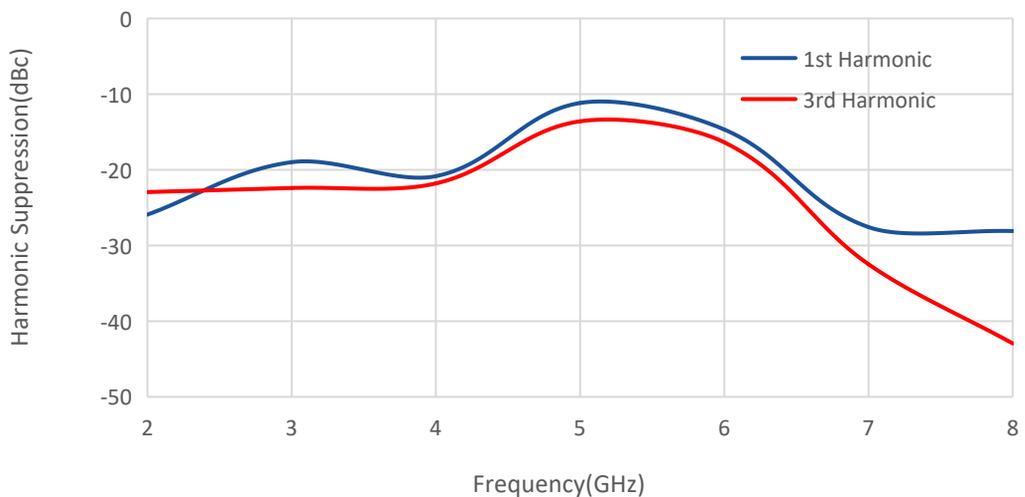
标准型号 Base Number	描述 Description	版本号 Revision
TLAM-0416-0215-S	Active Multiplier X2, 4-16 GHz, +15 dBm Output Power, SMA Female	Rev.1.1

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