

## Active Frequency Multiplier

### X2/10-30GHz /15dBm Output Power

**Model: TLAM-1030-0215-S**

TLAM-1030-0215-S is an active X2 frequency multiplier. The multiplier has an input frequency of 5 to 15 GHz with a typical input power of 2 dBm and an output frequency of 10 to 30 GHz with a typical output power of +15 dBm. The DC power requirement for the multiplier is +8 V DC/60 mA. The input port configuration is female SMA connector. The output port configuration is female 2.92mm connector.

#### Features:

- Output Frequency: 15-30GHz
- 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	10		30	GHz
输出功率 Output Power		+15		dBm
输入频率 Input Frequency	5		15	GHz
输入功率 Input Power	-5	2	+5	dBm
倍频次数 Multiply Factor		2		
基波 1st Harmonic		15		dBc
3次谐波 3rd Harmonic		20		dBc
供电电压 DC Voltage		+8		V
供电电流 DC Supply Current		60		mA

### 机械特性 Mechanical Specifications:

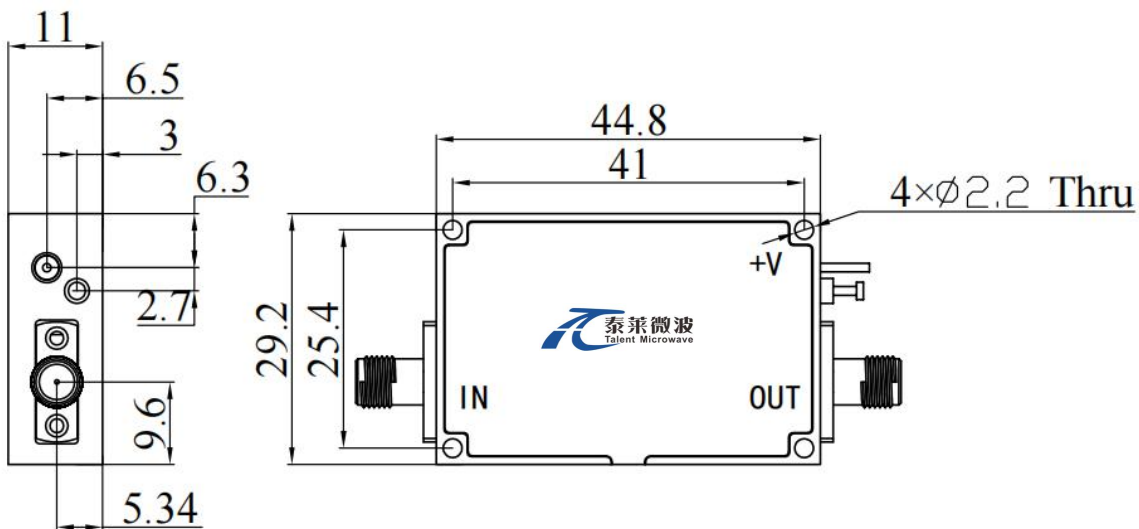
参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	2.92mm Female	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm

**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12 V
输入功率 RF Input Power	+10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形图 Outline Drawing:**

Unit:mm


**\*\*\*Heat Sink Required During Operation**


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
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-1030-0215-S	Active Multiplier X2,10-30 GHz ,+15 dBm Output Power,	Rev.1.0