

## Model: TLAM-1850-0215-K

## Active Multiplier

## X2, 18-50 GHz, +15 dBm Output Power

### Feature:

- Output Frequency: 18-50 GHz
- Output Power : 15dBm Typ
- Low power consumption
- 50 Ohm Matched Input / Output

### 电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
输出频率 Output Frequency	18		50	GHz
输出功率 Output Power		15		dBm
输入频率 Input Frequency	9		25	GHz
输入功率 Input Power		-6	-4	dBm
谐波抑制Harmonic Suppression		20		dBc
倍频次数 Multiply Factor		2		dB
输入驻波 Input VSWR		2.0	2.5	:1
输出驻波 Output VSWR		1.8	2.2	:1
供电电压 DC Voltage		+12		V
供电电流 DC Supply Current		150		mA

### 机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输出接口Output Connector	2.4mm Female	
输入接口Input Connector	2.92mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	28×18.9×13	mm



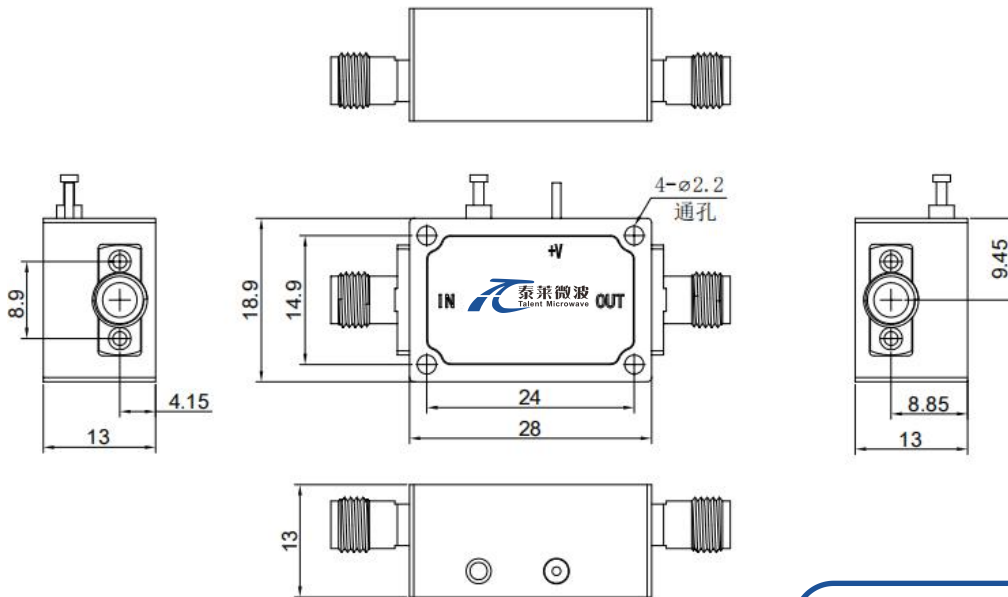
Available 220V System  
Benchtop Amplifier

### 绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15V
输入功率 RF Input Power	+10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**温度环境 Environmental Conditions:**

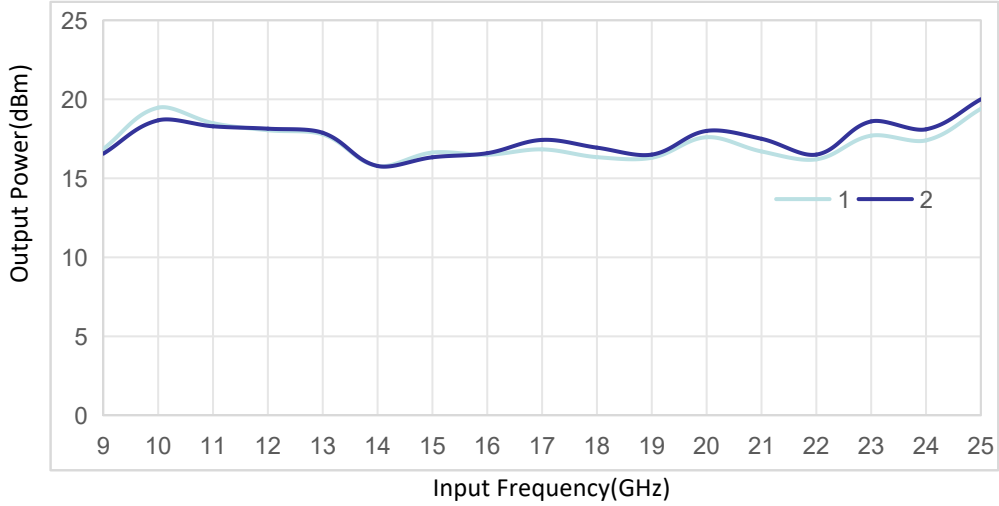
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-55		+85	°C
存储温度 Non-operating Temperature	-65		+150	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

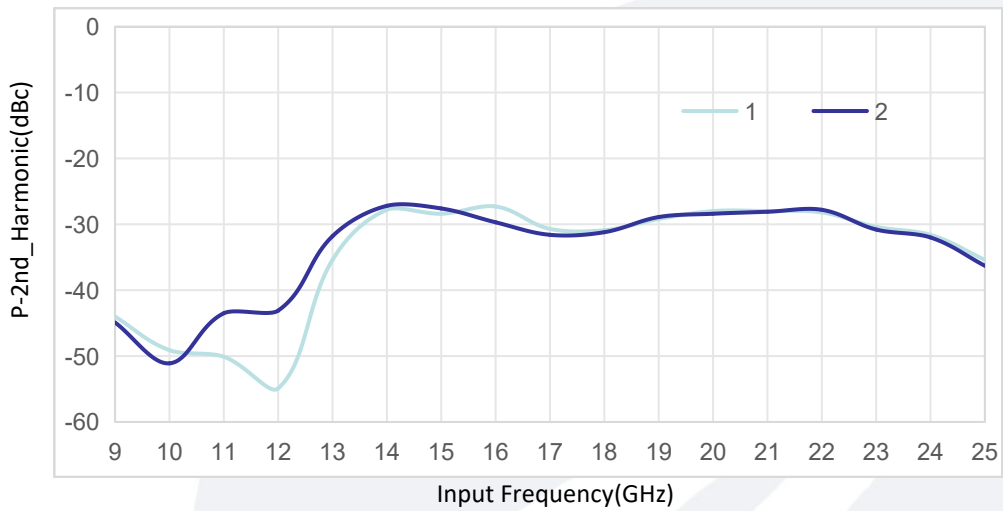
标准型号 Part Number	描述 Description	版本号Revision
TLAM-1850-0215-K	Active Multiplier X2, 18-50 GHz ,+15 dBm Output Power	Rev.1.1

典型曲线 Typical Performance Data:

**Output Power vs Input Frequency**



**2nd Harmonic vs Input Frequency**



**3rd Harmonic vs Input Frequency**

