

**Model:TMLA-075110-4240-10**
**Low Noise Amplifier, WR-10, W-Band  
 75-110GHz , NF:4.0 dB, Gain:42 dB**
**Feature:**

- RF Frequency: 75-110GHz
- Gain: 42 dB Typ
- Noise Figure: 4.0dB Typ
- Compact and lightweight.
- Single power supply required.

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
射频频率 RF Frequency	75		110	GHz
增益 Gain		42		dB
噪声系数 Noise Figure		4.0		dB
输出功率1dB压缩点Output P1dB		0		dBm
输入驻波 Input VSWR		2.5		:1
输出驻波 Output VSWR		2.2		:1
直流电压 DC Voltage		+12		V
供电电流 DC Supply Current		80		mA

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位 Units
输出接口Output Connector	WR-10/ UG-387/U	
输入接口Input Connector	WR-10/ UG-387/U	
直流偏置 Bias	Solder Pin	
尺寸 Size	39×30×21	mm

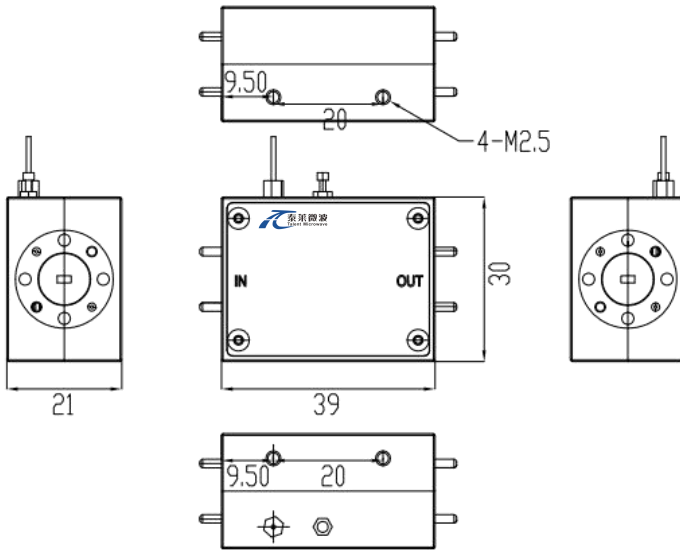

 Available 220V System  
 Benchtop Amplifier

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	13V
输入功率 RF Input Power	0 dBm
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	-10		+65	°C
存储温度 Non-operating Temperature	-25		+75	°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
TMLA-075110-4240-10	Low Noise Amplifier,W-Band 75-110GHz, NF:4.0 dB, Gain:42 dB,WR-10	Rev.1.1