

## W-band Amplitude Detector

75-110GHz /-20 dBm,Input Power

Model: TPSD-075110-10

TPSD-075110-10 is a WR-10 amplitude detector that can be used for full or narrow band applications. The detector is zero biased and intended for small signal detection purposes. The detector exhibits high sensitivity characteristics across the full waveguide operating bandwidth.

### Features:

- Full Waveguide Band Operation
- High Sensitivity

### Applications:

- Test Instrumentations

### 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	75		110	GHz
电压灵敏度 Voltage Sensitivity			5000	mV/mW
RF输入功率 RF Input Power	-50		-20	dBm
输入驻波 Input VSWR		2.5		:1
输出电压极性 Output Voltage Polarity		Positive		

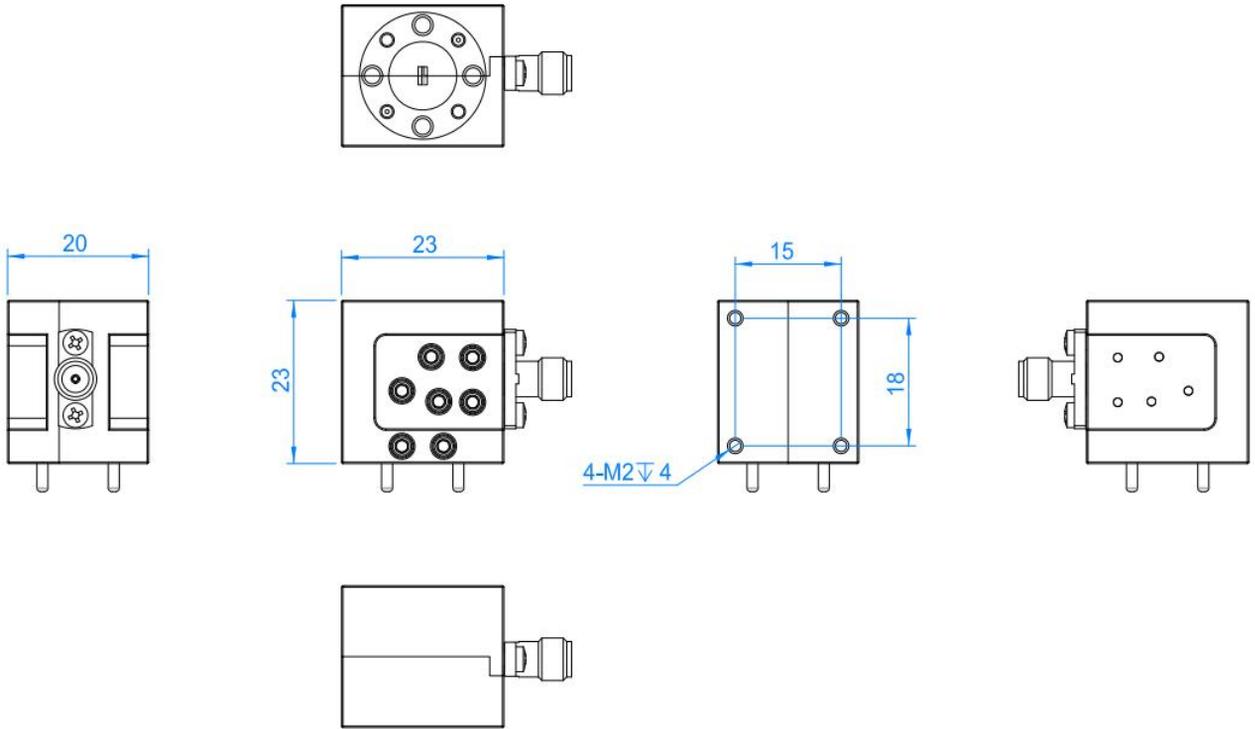
### 环境和机械特性 Environmental And Physical Characteristics:

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temperature	0 To +50	°C
RF端口 RF Port	WR-10/UG-387/U	
DC端口 DC Port	SMA Female	
表面处理 Finish	Gold Plated	
尺寸 Size	23*23*20	

### 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
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外形图 Outline Drawing: Unit:mm



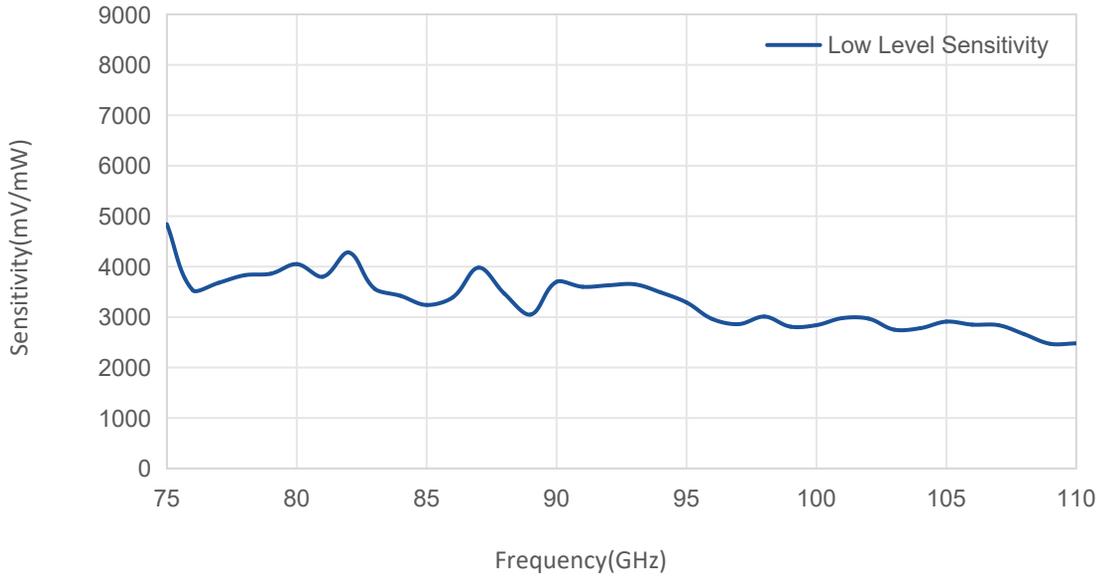

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

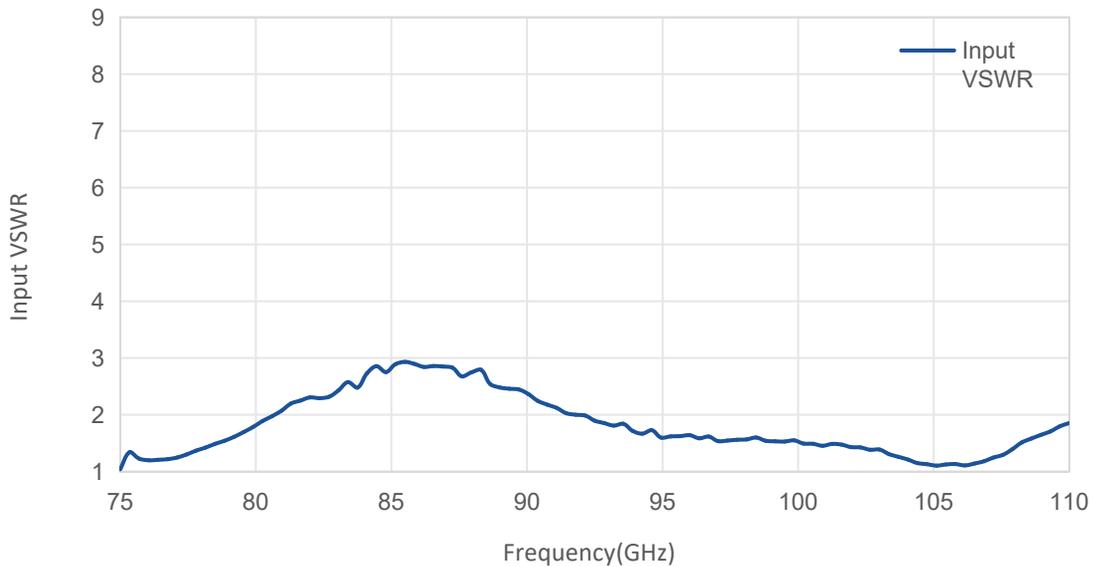
标准型号 Base Number	描述 Description	版本号 Revision
TPSD-075110-10	W-band Amplitude Detector, 75-110GHz, Voltage sensitivity :5000 mV/mW Max	Rev.1.1

## 典型曲线 Typical Performance Data:

### Sensitivity vs Frequency

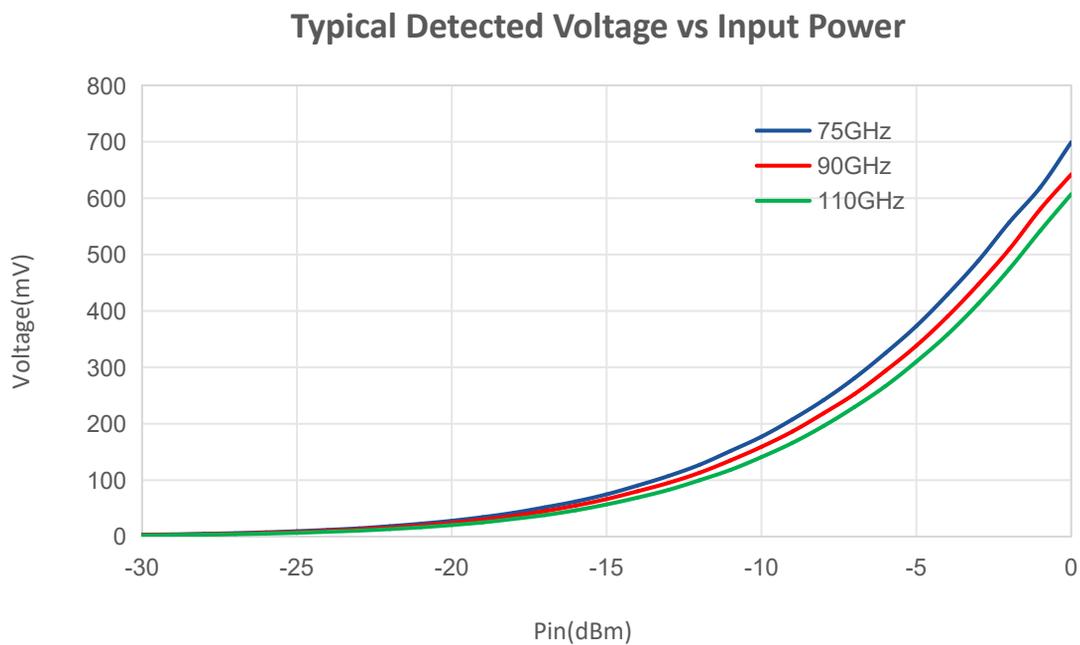


### Input VSWR vs Frequency



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.

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