

Amplitude Detector

210-230GHz/WR-4.3

Model: TPSD-210230-04

TPSD-210230-04 is a WR-4.3 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:

- Frequency range: 210-230GHz
- High Sensitivity: 1800mV/mW

Applications:

- Test Instrumentations

电气特性 Electrical Characteristics:

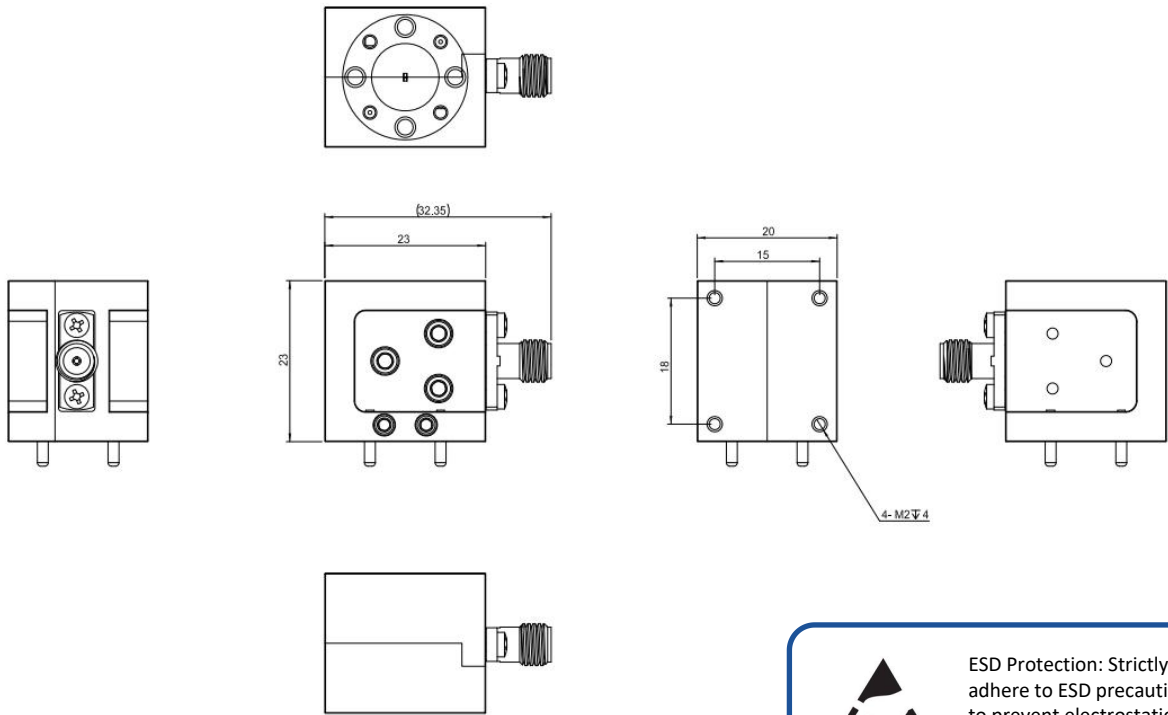

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	210		230	GHz
电压灵敏度 Voltage Sensitivity		1800		mV/mW
驻波 VSWR		3.5		:1
RF耐受功率 RF Power Handling		10		dBm

环境和机械特性 Environmental And Physical Characteristics:

参数 Parameter	指标 Value	单位 Units
RF端口 RF Port	WR-4.3/UG-387/U	
DC端口 DC Port	SMA Female	
壳体材质 Case Material	Brass	
表面处理 Finish	Gold Plated	
尺寸 Size	23*23*20	mm

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm

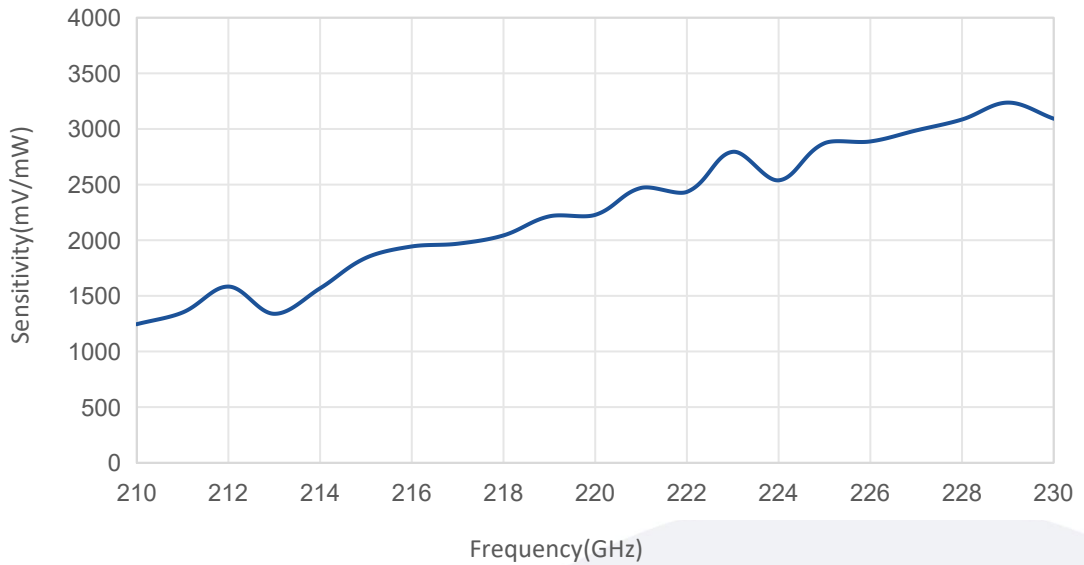
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

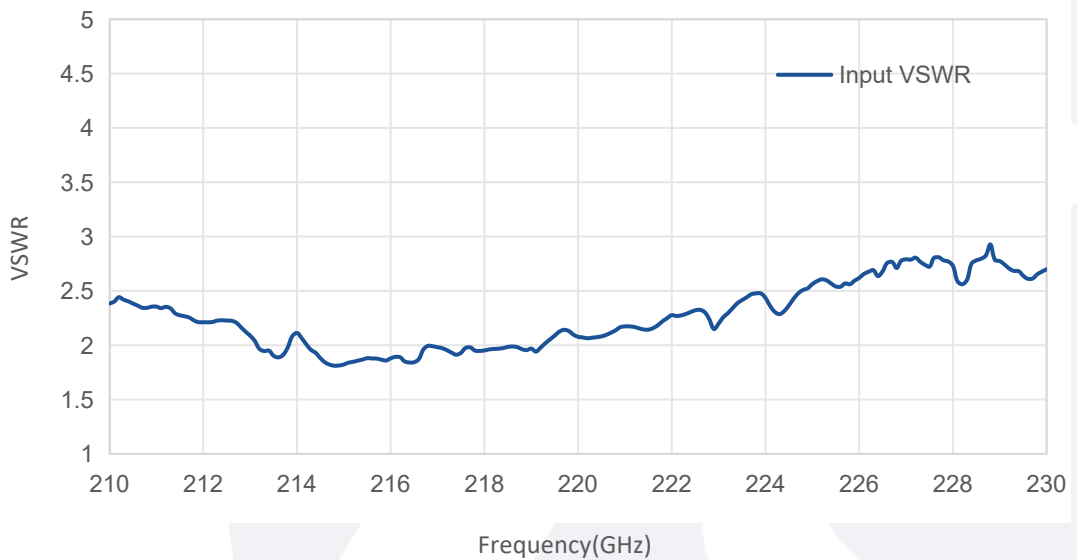
标准型号 Base Number	描述 Description	版本号 Revision
TPSD-210230-04	Amplitude Detector, 210-230GHz, Voltage sensitivity : 1800 mV/mW Typ	Rev.1.0

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.