

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

Electrical Characteristics:

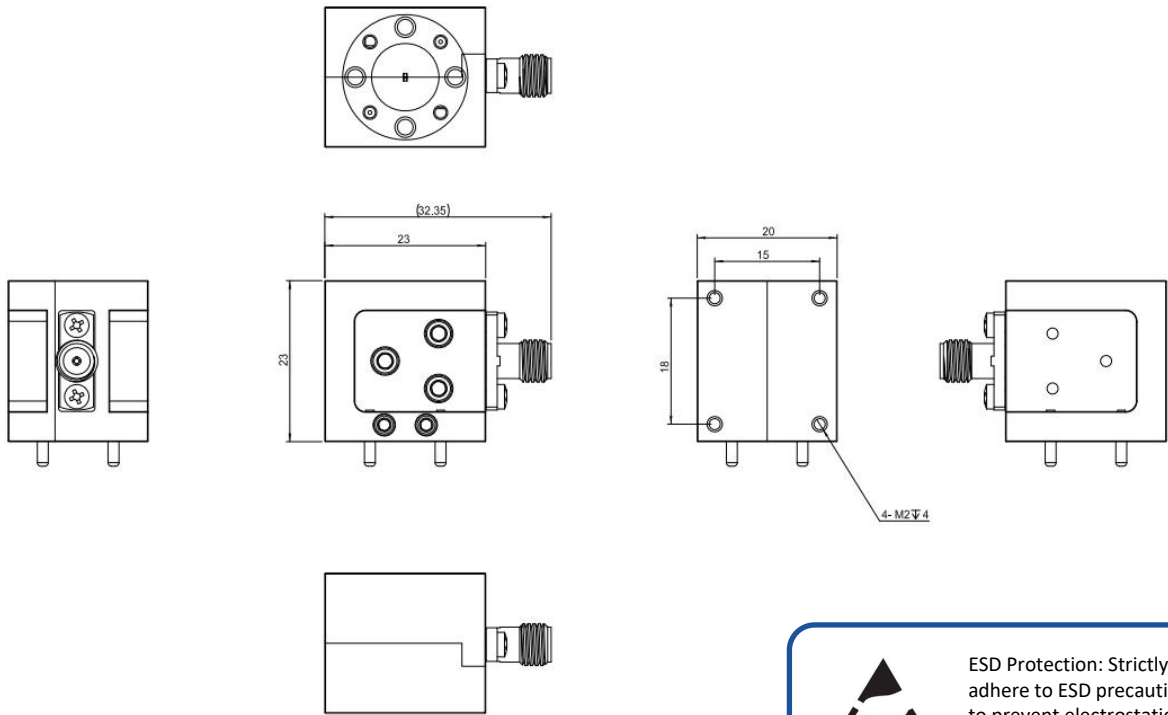
Parameter	Min	Typ	Max	Units
Frequency range	210		230	GHz
Voltage Sensitivity		1800		mV/mW
VSWR		3.5		:1
RF Power Handling		10		dBm

Envrionmental And Physical Characteristics:

Parameter	Value	Units
RF Port	WR-4.3/UG-387/U	
DC Port	SMA Female	
Case Material	Brass	
Finish	Gold Plated	
Size	23*23*20	mm

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



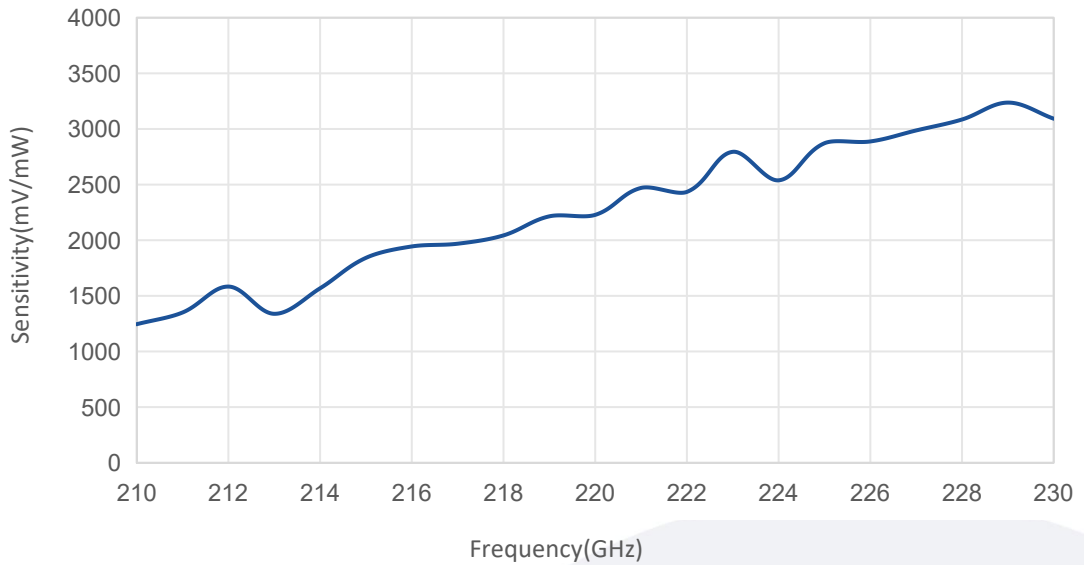
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

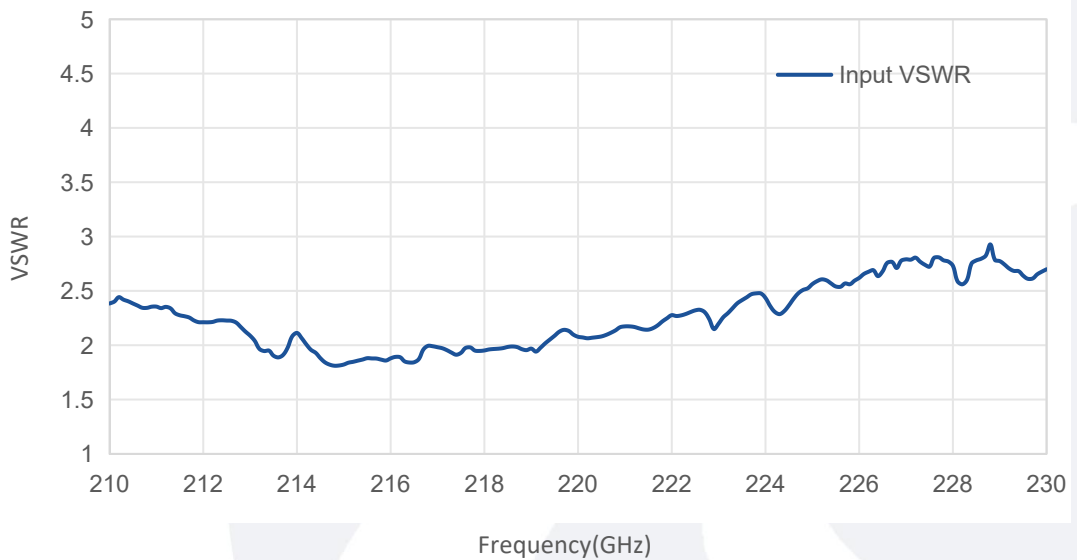
Base Number	Description	Revision
TPSD-210230-04	Amplitude Detector, 210-230GHz, Voltage sensitivity : 1800 mV/mW Typ	Rev.1.0

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.