

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Voltage Sensitivity			5000	mV/mW
RF Input Power	-50		-20	dBm
Input VSWR		2.5		:1
Output Voltage Polarity		Positive		

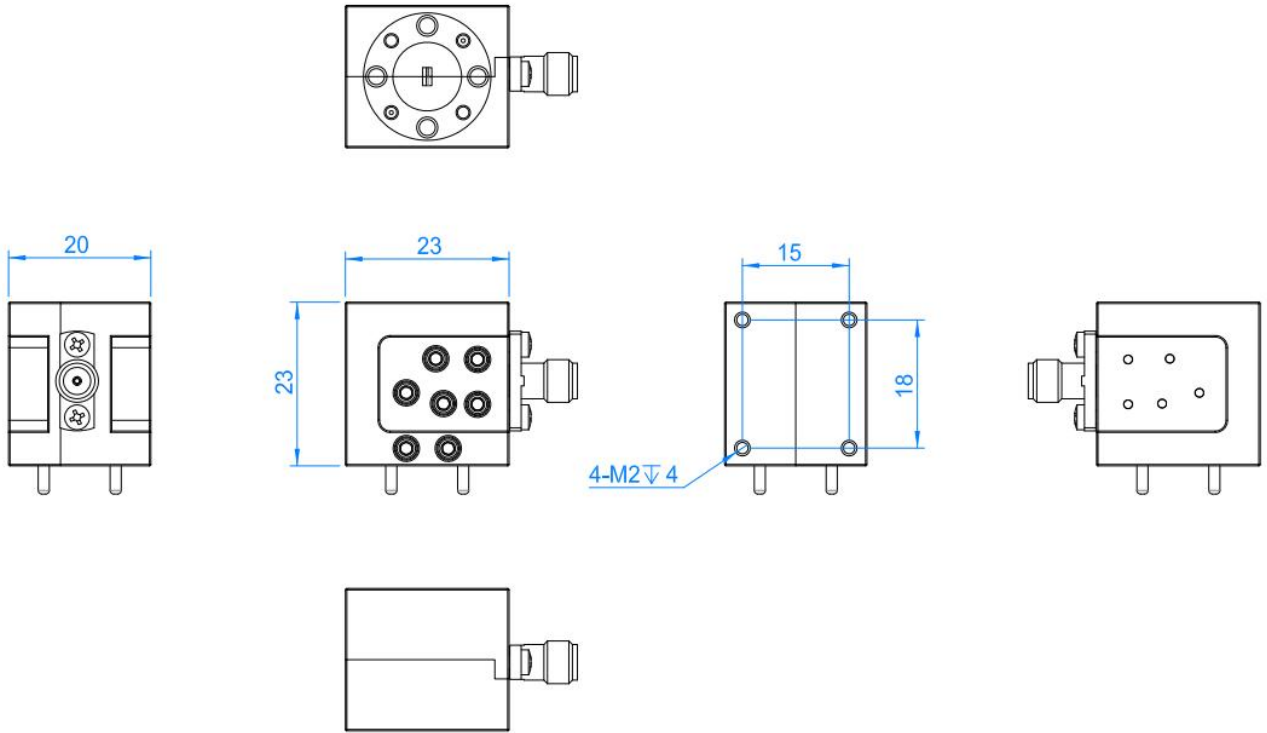
Envrionmental And Physical Characteristics:

Parameter	Value	Units
Operating Temerature	0 To +50	°C
RF Port	WR-10/UG-387/U	
DC Port	SMA Female	
Finish	Gold Plated	
Size	23*23*20	

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+10 dBm

Outline Drawing: Unit:mm



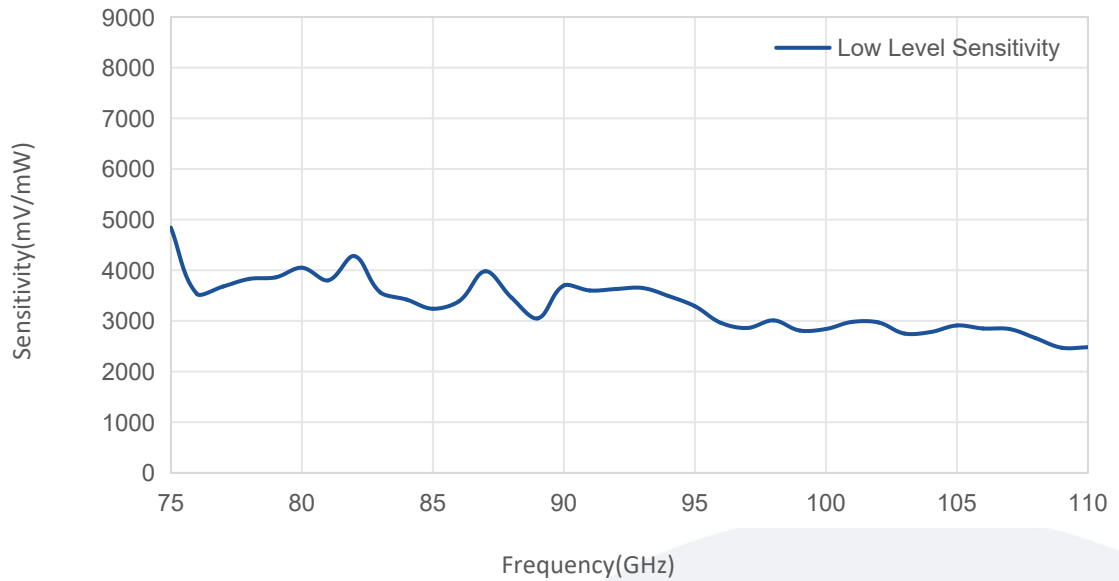
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

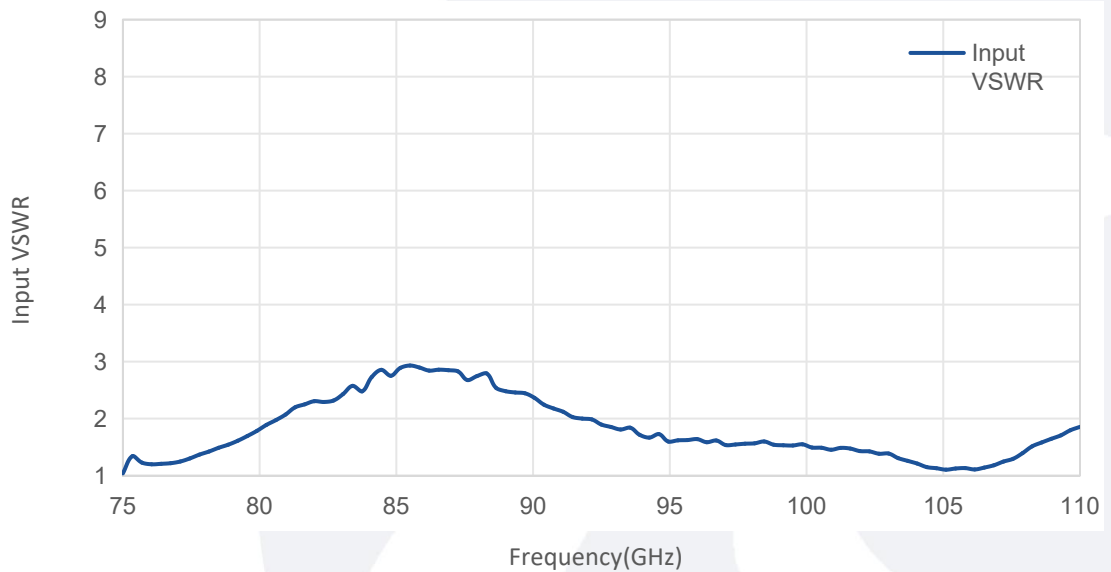
Base Number	Description	Revision
TPSD-075110-10	W-band Amplitude Detector, 75-110GHz, Voltage sensitivity :5000 mV/mW Max	Rev.1.1

Typical Performance Data:

Sensitivity vs Frequency



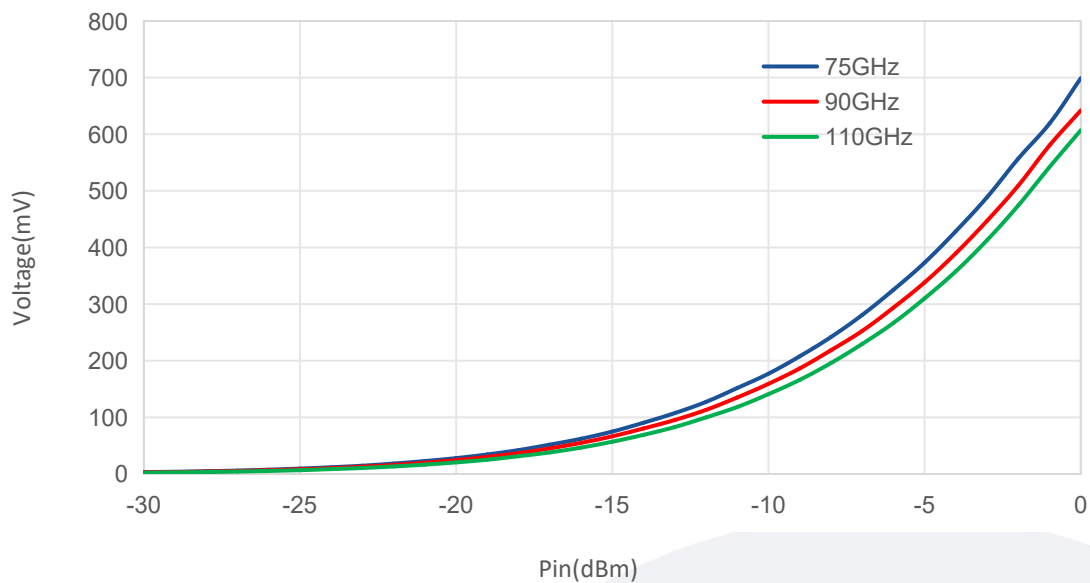
Input VSWR vs Frequency



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.

Typical Performance Data:

Typical Detected Voltage vs Input Power



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.