

D-band Power Detector

110-170GHz/-20dBm,Input Power

Model: TPSD-110170-06

TPSD-110170-06 is a WR-6.5 power 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	110		170	GHz
Voltage Sensitivity		2500		mV/mW
RF Input Power			-20	dBm
Input VSWR		3		:1
Output Voltage Polarity		Positive		

Envrionmental And Physical Characteristics:

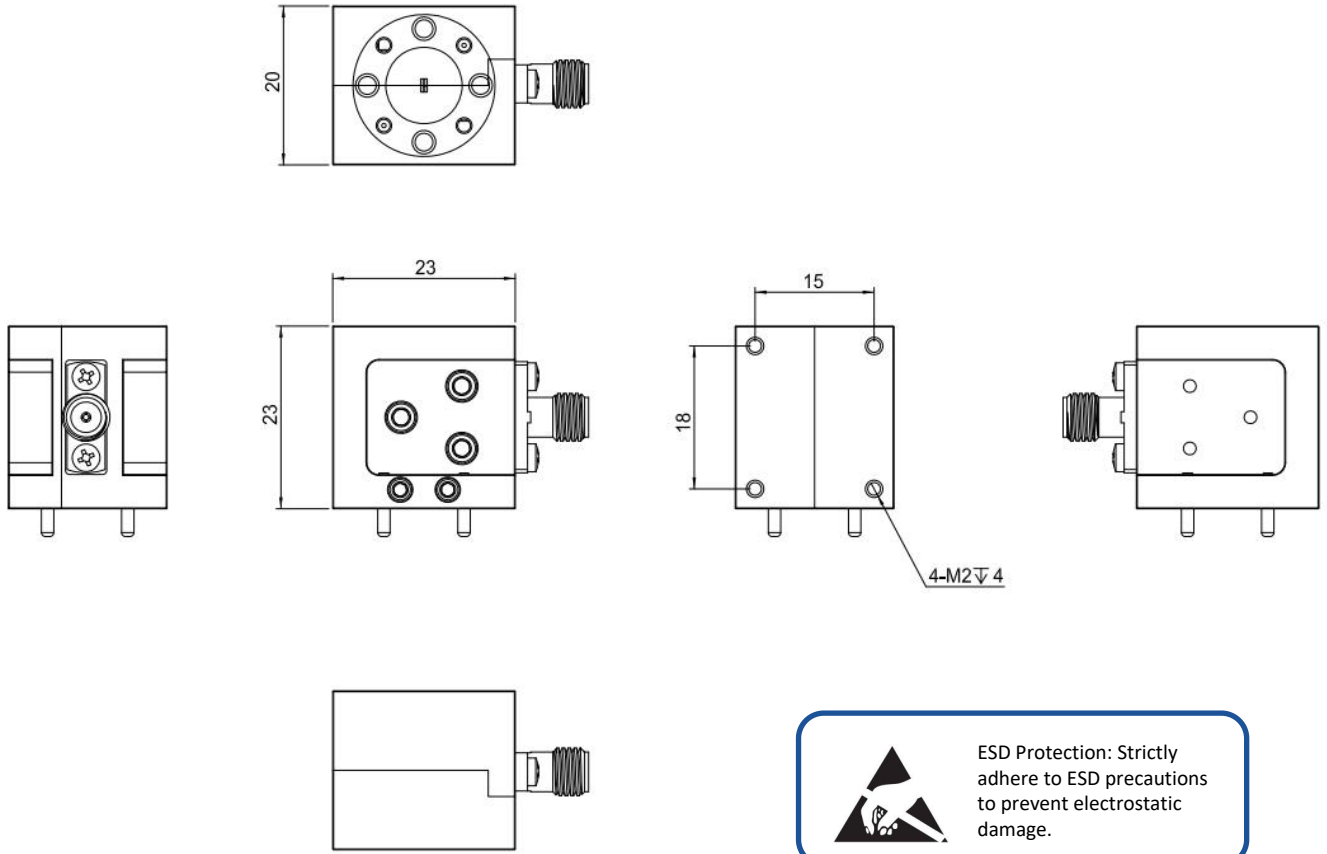
Parameter	Value	Units
RF Port	WR-6.5/UG-387/U	
DC Port	SMA Female	
Case Material	Brass	
Finish	Gold Plated	
Size	23*23*20	mm

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



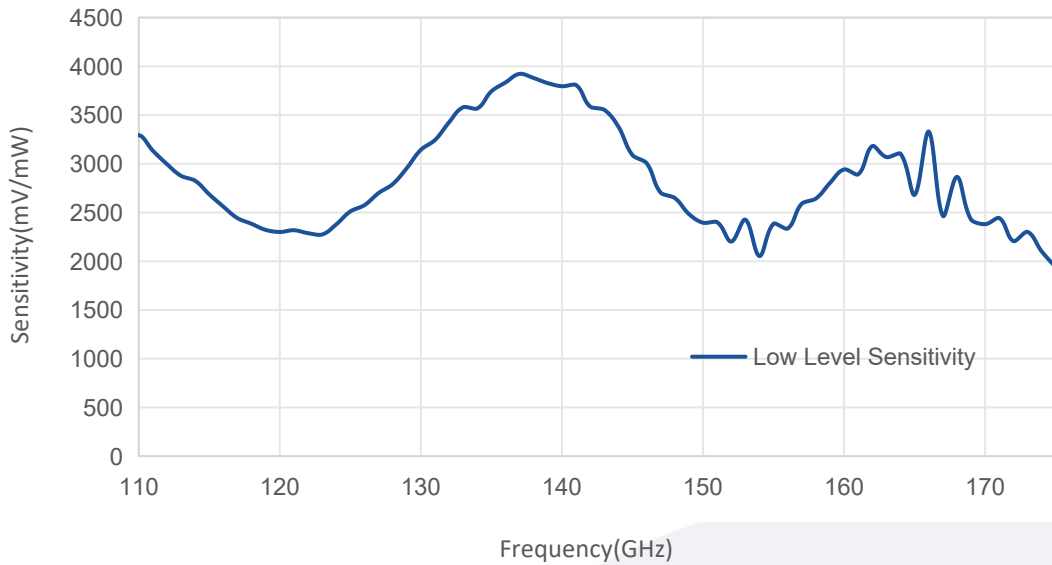
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

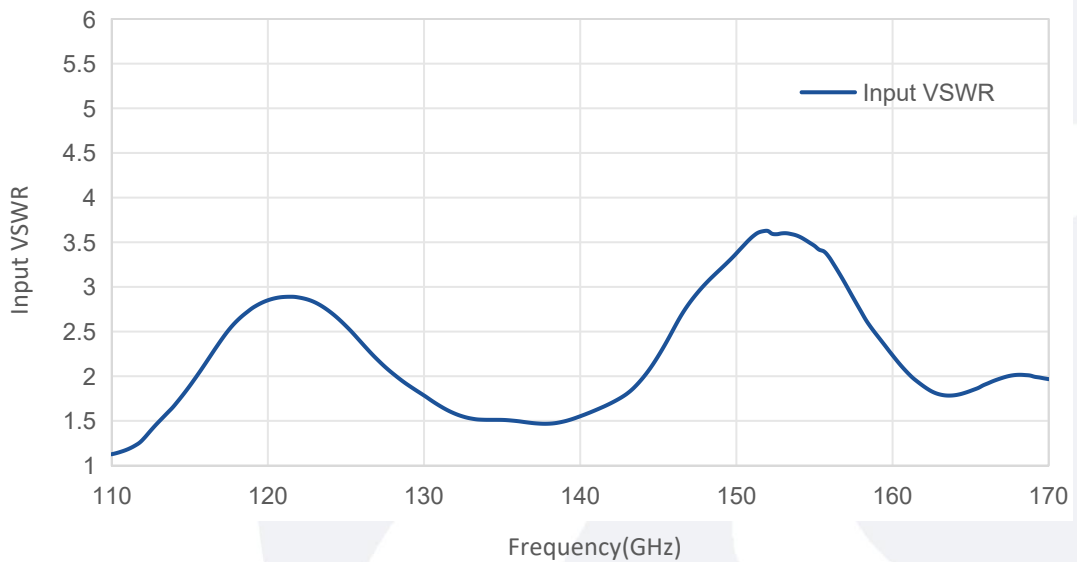
Base Number	Description	Revision
TPSD-110170-06	D-band Power Detector, 110-170GHz, Voltage sensitivity :2500 mV/mW Typ	Rev.1.0

Typical Performance Data:

Sensitivity vs Frequency



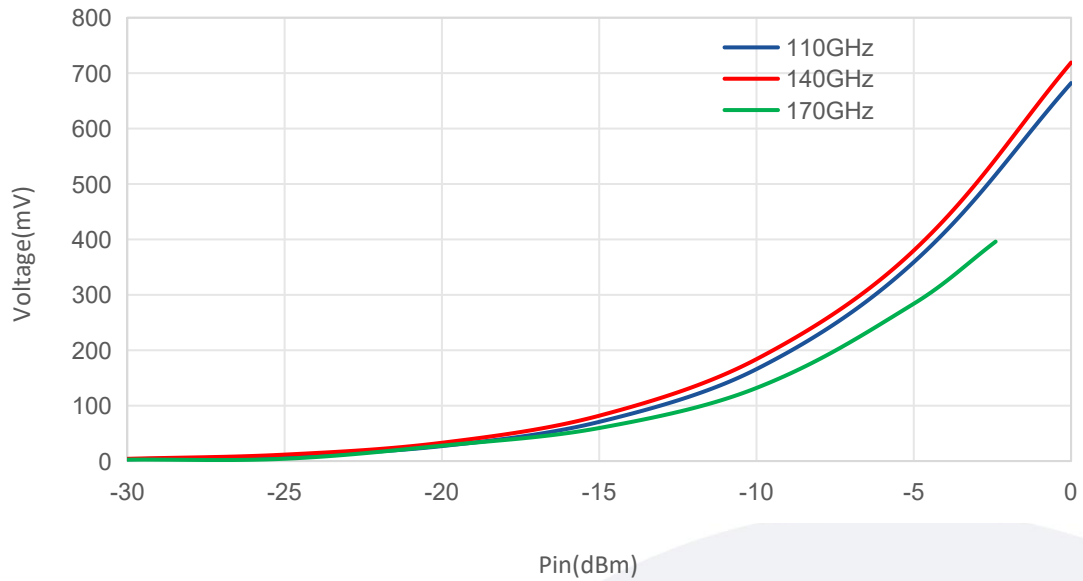
Input VSWR vs Frequency



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.

典型曲线 Typical Performance Data:

Typical Detected Voltage vs Input Power



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