

V-band Waveguide Directional Coupler

WR-15/WR-15/6dB Coupling

Model: TC-050075-6-15

TC-050075-6-15 is a V-band, three-port waveguide directional coupler that delivers a 6 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 50 to 75 GHz. The interfaces of the directional coupler are WR-15 waveguides with UG-385/U anti-cocking flanges.

Features:

- Operating Frequency 50 to 75GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Characteristics:

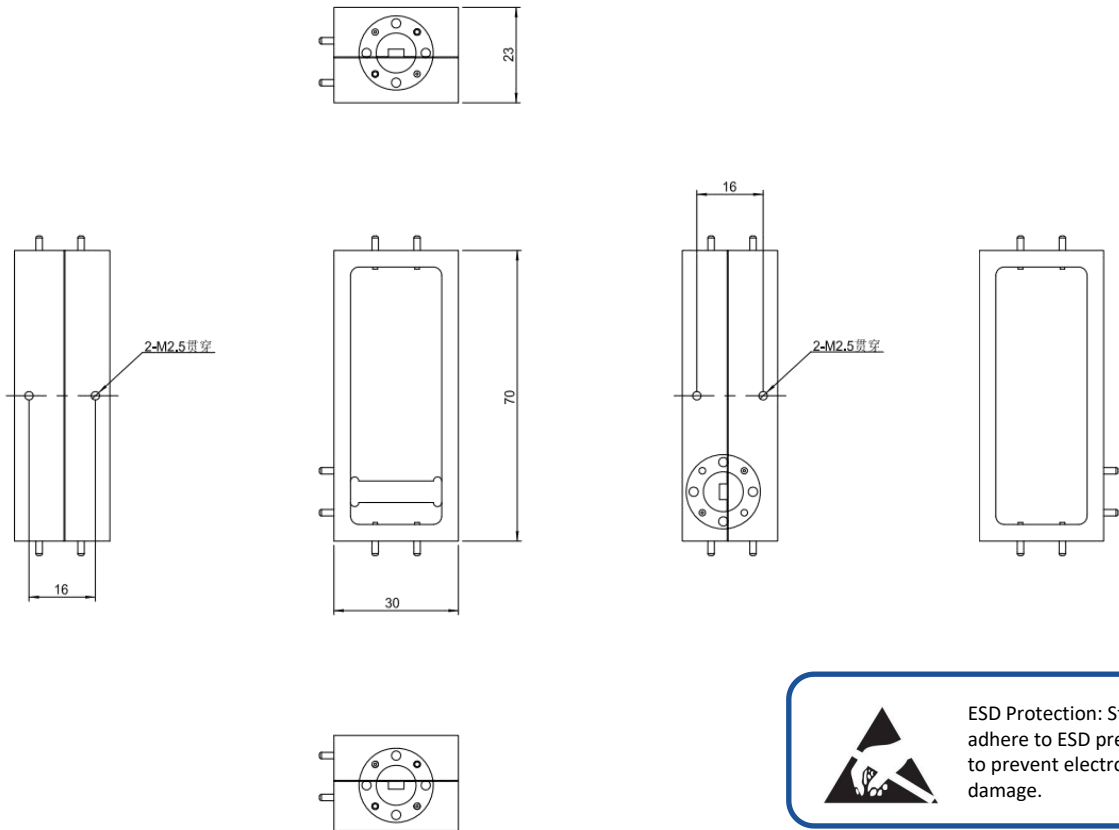
Parameter	Min	Typ	Max	Units
Frequency Range	50		75	GHz
Insertion Loss		1.5		dB
Coupling		6		dB
Coupling Accuracy		±2		dB
Isolation		36		dB
Directivity		30		dB
Main Line VSWR		1.1		:1
Coupling Port VSWR		1.1		:1

Envrionmental And Physical Characteristics:

Parameter	Value	Units
Operating Temerature	-40 To +85	°C
Storage Temerature	-40 to +85	°C
RF Connectors	WR-15/UG-385/U	
Coupled Port	WR-15/UG-385/U	
Size	70*30*23	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
TC-050075-6-15	V-band Waveguide Directional Coupler, 50-75GHz, Coupling:6dB Typ, WR-15/UG-385/U	Rev.1.0