

V-band Waveguide Directional Coupler

WR-15/20dB Coupling

Model: TC-050075-20-15

TC-050075-20-15 is a V-band, three-port waveguide directional coupler that delivers a 20 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 50 to 75 GHz. The interfaces of the coupler are WR-15 waveguides with UG-385/U-M anti-cocking flanges.

Features:

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

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

电气特性 Electrical Characteristics:

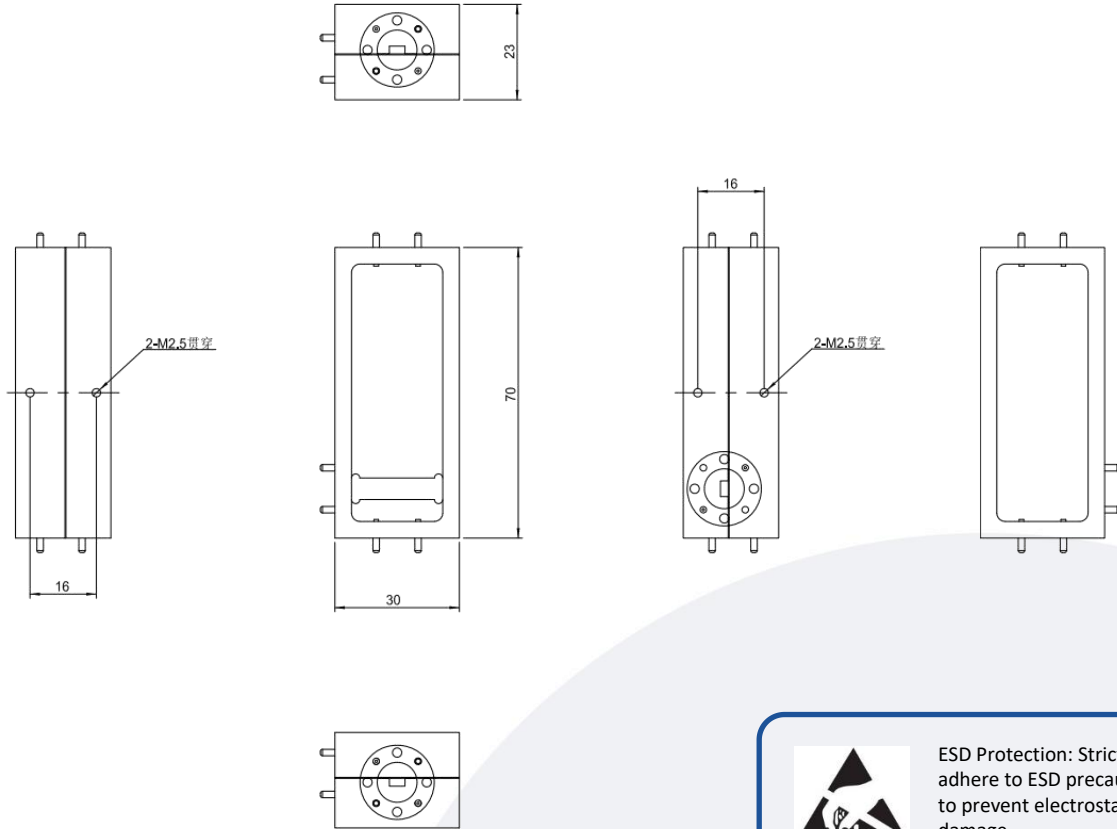
参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	50		75	GHz
插入损耗 Insertion Loss		0.5		dB
耦合度 Coupling		20		dB
耦合精度 Coupling Accuracy		±2		dB
隔离度 Isolation		50		dB
方向性 Directivity		30		dB
主线驻波 Main Line VSWR		1.1		:1
耦合口驻波 Coupling Port VSWR		1.1		:1

环境和机械特性 Environmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
操作温度 Operating Temperature	-40 To +85	°C
存储温度 Storage Temperature	-40 to +85	°C
波导接口 Waveguide Connectors	WR-15/UG-385/U	
耦合接口 Coupled Port	WR-15/UG-385/U	
尺寸 Size	70*30*23	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
TC-050075-20-15	V-band Waveguide Directional Coupler, 50-75GHz, Insertion Loss: 0.5dB Typ, Coupling: 20dB Typ, WR-15	Rev.1.0