

## Y-band Waveguide Directional Coupler

### WR-4.3/20dB Coupling

Model: TDC-170260-20-04

TDC-170260-20-04 is a Y-band, four-port waveguide directional coupler that delivers a 20 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 170 to 260 GHz. The interfaces of the coupler are WR-4.3 waveguides with UG-387/U-M anti-cocking flanges.

#### Features:

- Operating Frequency 170 to 260 GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

#### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

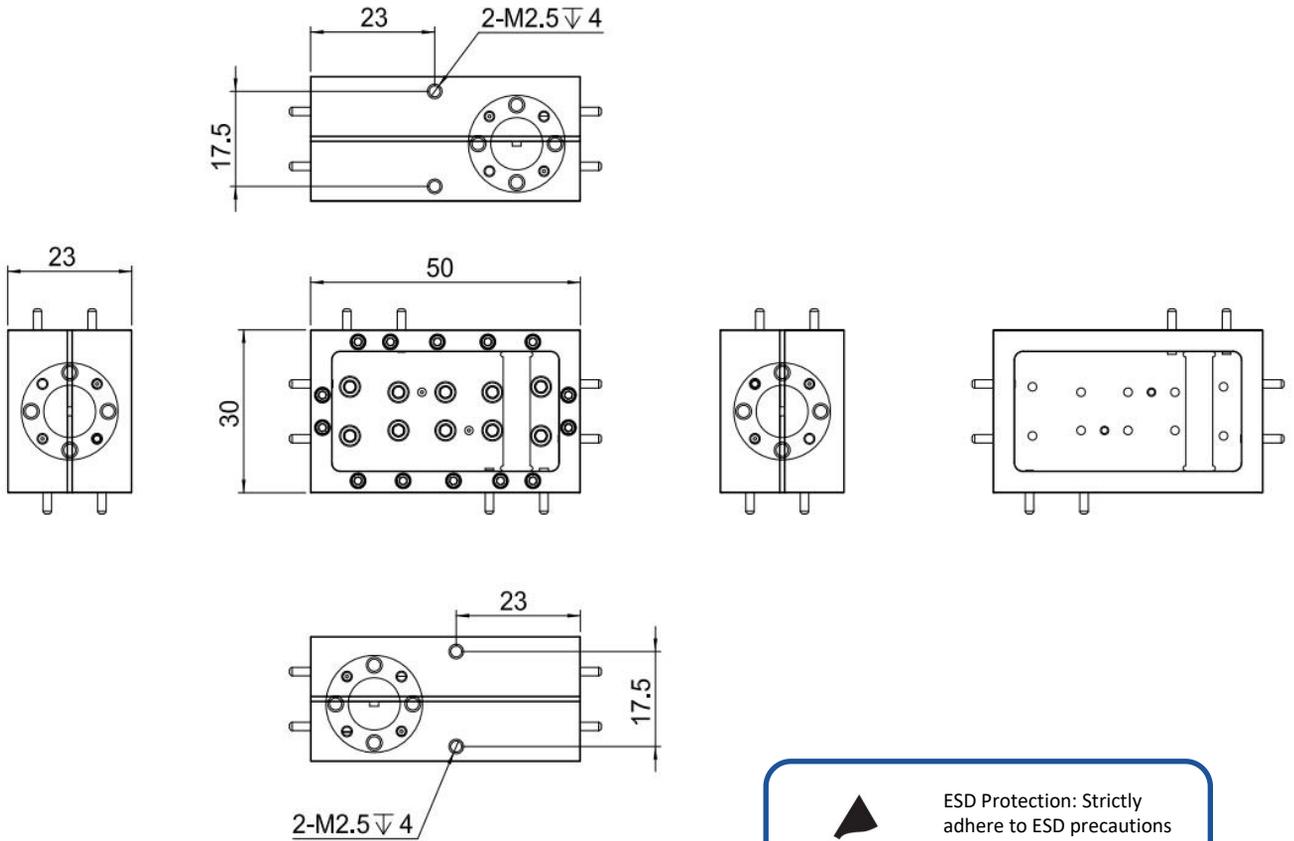
### 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	170		260	GHz
插入损耗 Insertion Loss		2		dB
耦合度 Coupling		20		dB
方向性 Directivity		30		dB
输入驻波 Input VSWR		1.1		:1
输出驻波 Output 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-4.3/UG-387/U	
耦合接口 Coupled Port	WR-4.3/UG-387/U	
尺寸 Size	50*30*23	mm

外形图 Outline Drawing: Unit:mm




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
TDC-170260-20-04	Y-band Waveguide Directional Coupler,170-260GHz, Insertion Loss:2dB Typ, Coupling:20dB Typ,WR-4.3	Rev.1.0