

G-band Waveguide Directional Coupler

WR-5.1/20dB Coupling

Model: TDC-140220-20-05

TDC-140220-20-05 is a G-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 140 to 220 GHz. The interfaces of the coupler are WR-5.1 waveguides with UG-387/U-M anti-cocking flanges.

Features:

- Operating Frequency 140 to 220 GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

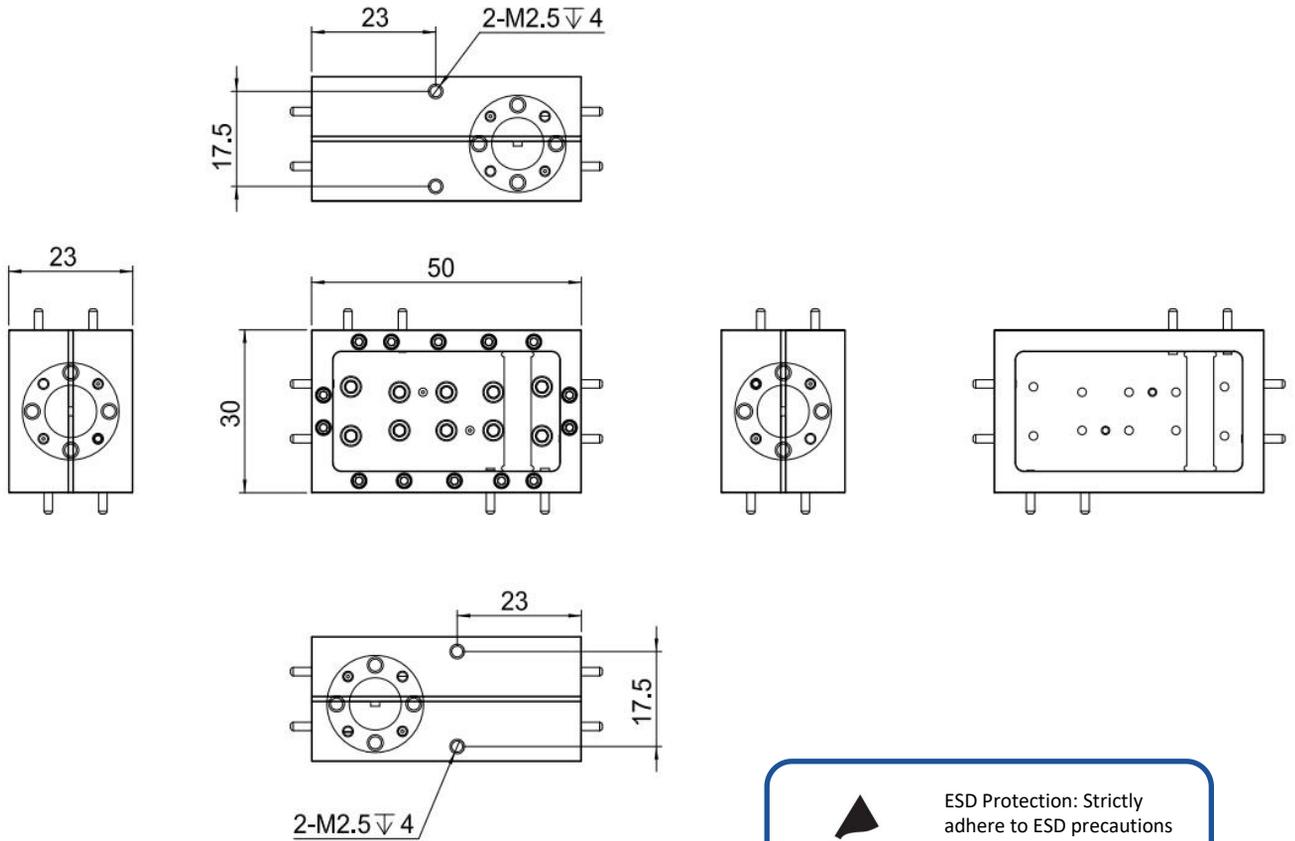
电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	140		220	GHz
插入损耗 Insertion Loss		1.5		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-5.1/UG-387/U	
耦合接口 Coupled Port	WR-5.1/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-140220-20-05	G-band Waveguide Directional Coupler, 140-220GHz, Insertion Loss: 1.5dB Typ, Coupling: 20dB Typ, WR-5.1	Rev.1.0