

F-band Waveguide Directional Coupler

WR-08/20dB Coupling

Model: TDC-090140-20-08

TDC-090140-20-08 is a F-band, four-port waveguide directional coupler that delivers a 20 dB nominal coupling level and 35 dB typical directivity across the full waveguide band from 90 to 140 GHz. The interfaces of the coupler are WR-08 waveguides with UG-387/U-M anti-cocking flanges.

Features:

- Operating Frequency 90 to 140 GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

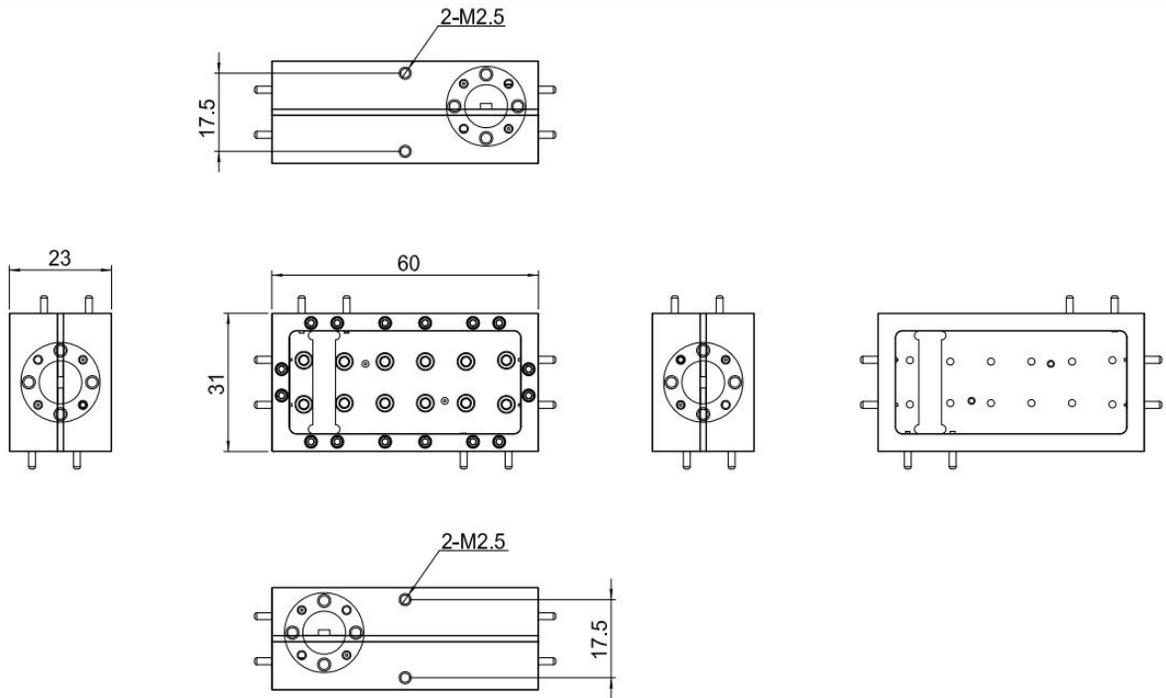
电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	90		140	GHz
插入损耗 Insertion Loss		1		dB
耦合度 Coupling		20		dB
方向性 Directivity		35		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-08/UG-387/U	
耦合接口 Coupled Port	WR-08/UG-387/U	
尺寸 Size	60*31*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-090140-20-08	F-band Waveguide Directional Coupler,90-140GHz, Insertion Loss:1dB Typ, Coupling:20dB Typ,WR-08	Rev.1.0