

## 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

#### Electrical Characteristics:

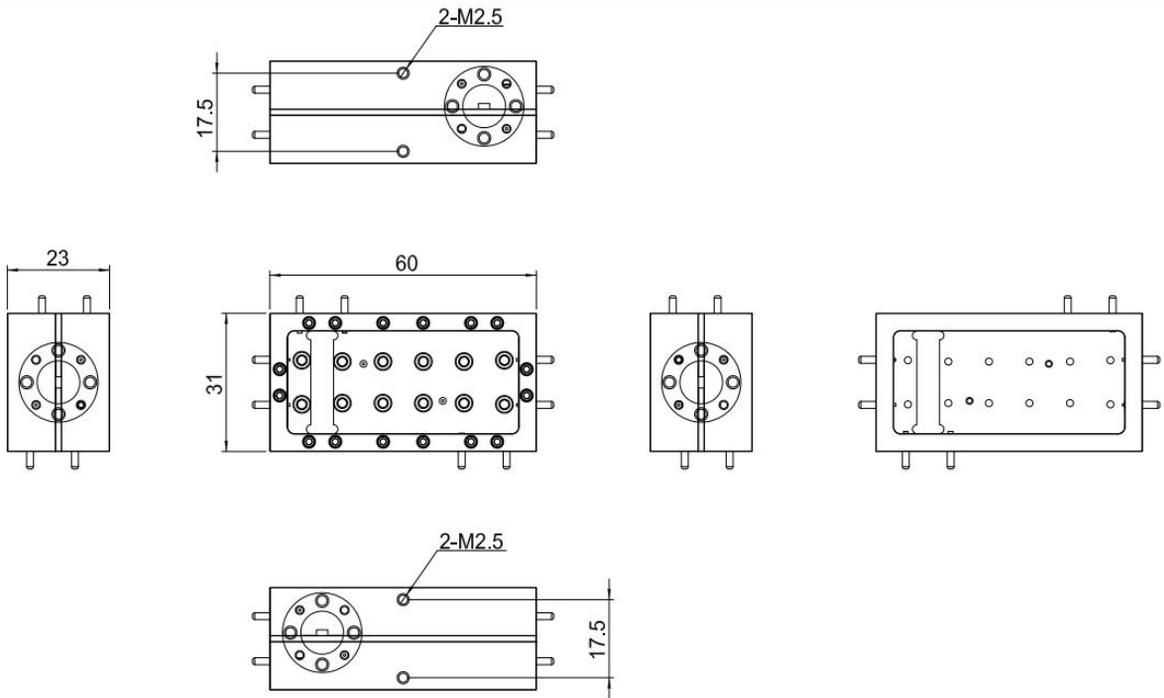
Parameter	Min	Typ	Max	Units
Frequency Range	90		140	GHz
Insertion Loss		1		dB
Coupling		20		dB
Directivity		35		dB
Input VSWR		1.1		:1
Output VSWR		1.1		:1

#### Environmental And Physical Characteristics:

Description	Parameter	Units
Operating Temperature	-40 To +85	°C
Storage Temperature	-40 to +85	°C
Waveguide Connectors	WR-08/UG-387/U	
Coupled Port	WR-08/UG-387/U	
Size	60*31*23	mm

**Outline Drawing:**

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

**Ordering Information:**

Base Number	Description	Revision
TDC-090140-20-08	F-band Waveguide Directional Coupler,90-140GHz, Insertion Loss:1dB Typ, Coupling:20dB Typ,WR-08	Rev.1.0