

## Waveguide Directional Coupler

### WR-2.8/260-400GHz/20dB Coupling

**Model: TDC-260400-20-2.8-B**

TDC-260400-20-2.8-B is a three-port waveguide directional coupler that delivers a 20dB nominal coupling level and 30 dB minimum directivity across the full waveguide band from 260 to 400 GHz. The interfaces of the directional coupler are WR-2.8/UG-387/U.

#### Features:

- Operating Frequency 260 to 400GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

#### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### 电气特性 Electrical Characteristics:

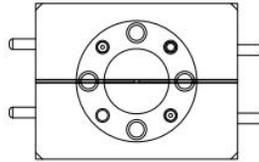
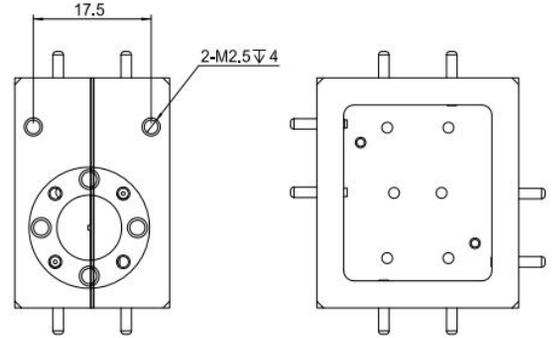
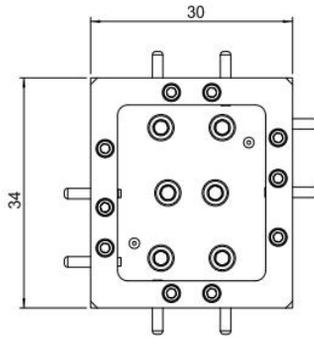
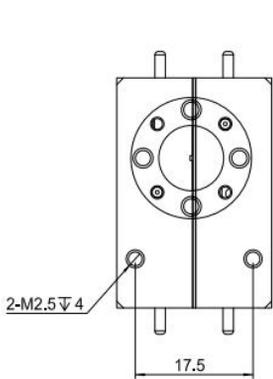
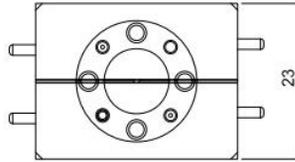
参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	260		400	GHz
插入损耗 Insertion Loss		3		dB
耦合度 Coupling		20		dB
隔离度 Isolation		50		dB
方向性 Directivity		30		dB
输入驻波 Input VSWR		1.2		:1
输出驻波 Output VSWR		1.2		:1

### 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-2.8/UG-387/U	
耦合接口 Coupled Port	WR-2.8/UG-387/U	
尺寸 Size	30*34*23	mm

外形图 Outline Drawing:

Unit:mm



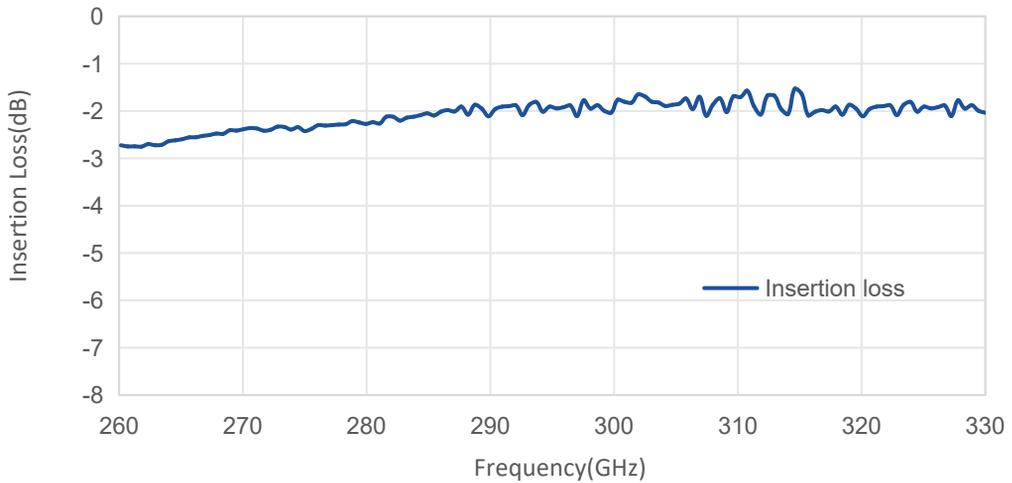
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

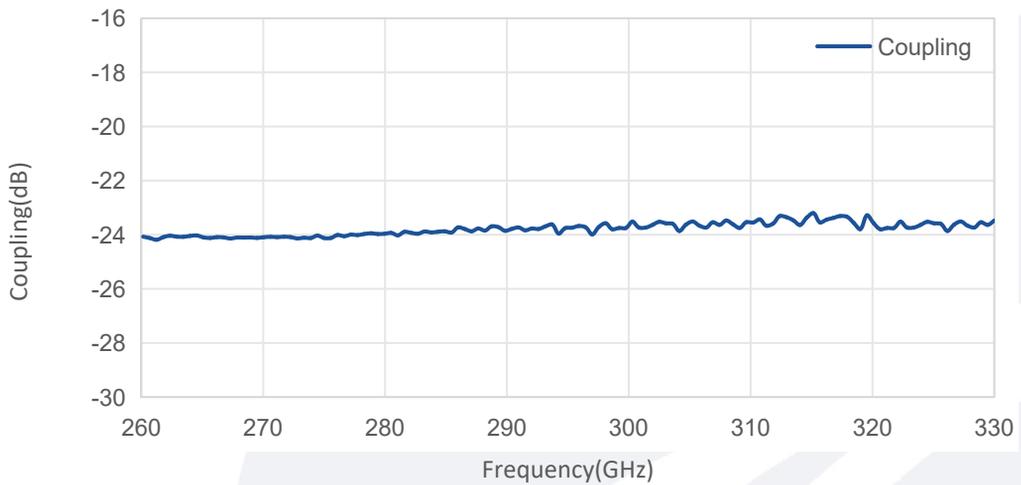
标准型号 Base Number	描述 Description	版本号 Revision
TDC-260400-20-2.8-B	Waveguide Directional Coupler,260-400GHz, Coupling:20dB Typ,WR-2.8/UG-387/U	Rev.1.0

**典型曲线 Typical Performance Data:**

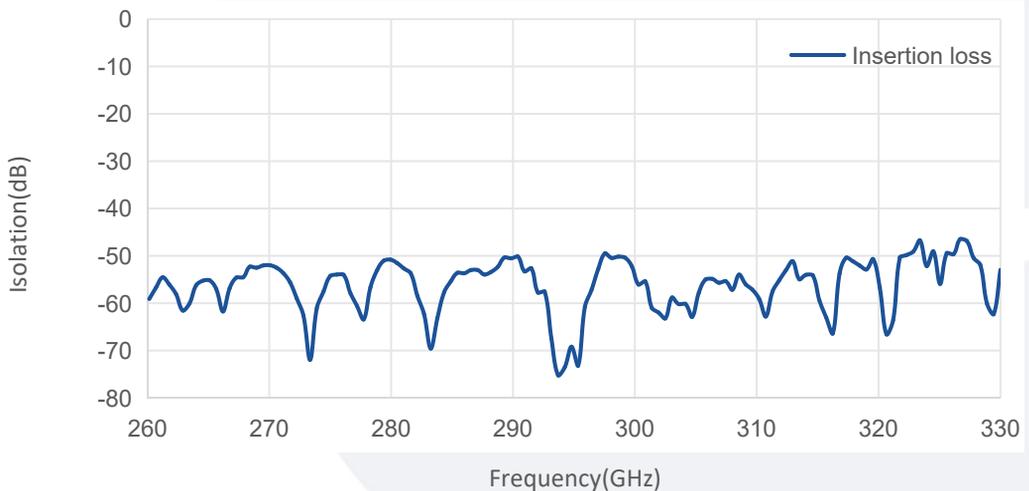
**Insertion Loss vs Frequency**



**Coupling vs Frequency**



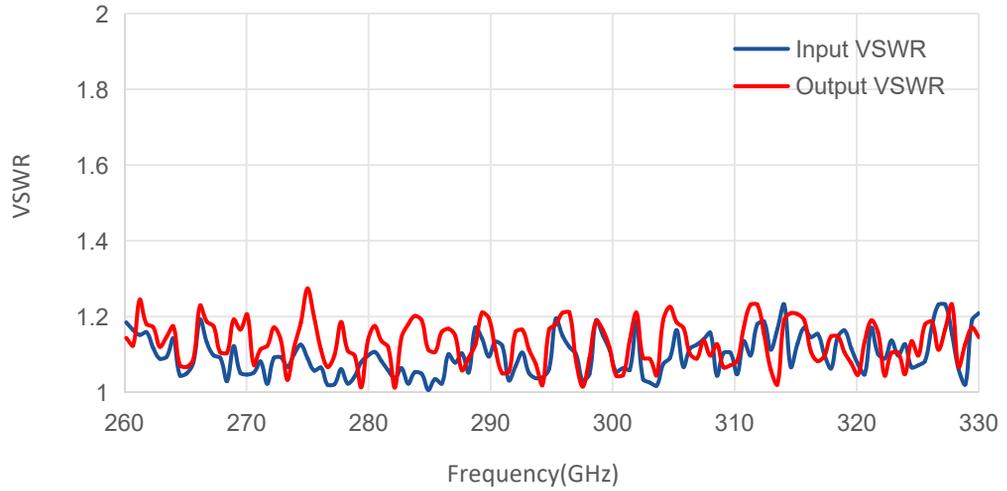
**Isolation vs Frequency**



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

## 典型曲线 Typical Performance Data:

### VSWR vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.