

Waveguide Directional Coupler

WR-2.8/260-400GHz/10dB Coupling

Model: TDC-260400-10-2.8

TDC-260400-10-2.8 is a four-port waveguide directional coupler that delivers a 10dB nominal coupling level and 20 dB typical 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:

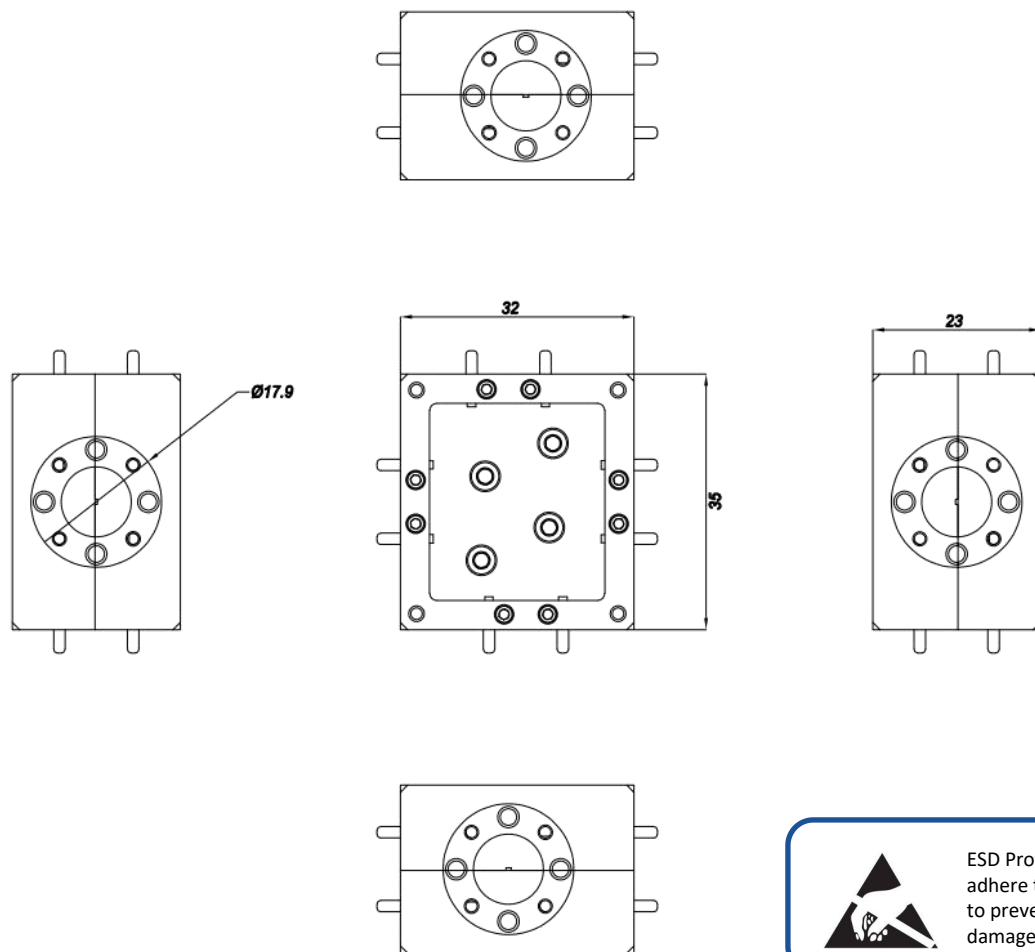
参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	260		400	GHz
插入损耗 Insertion Loss		3		dB
耦合度 Coupling		10		dB
隔离度 Isolation		30		dB
方向性 Directivity		20		dB
输入驻波 Input VSWR		1.2		:1
输出驻波 Output VSWR		1.2		:1

环境和机械特性 Envriionmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
操作温度 Operating Temerature	-40 To +85	°C
存储温度 Storage Temerature	-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	32*35*23	mm

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



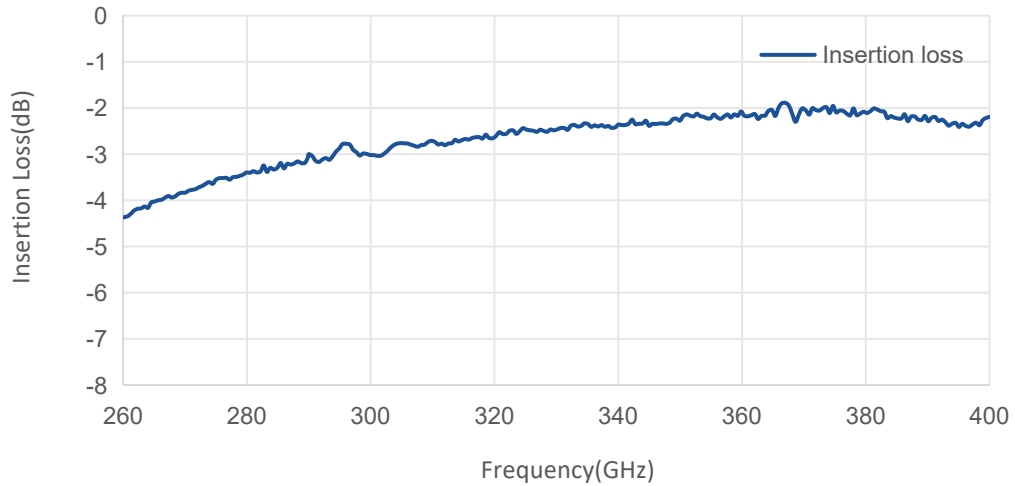
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

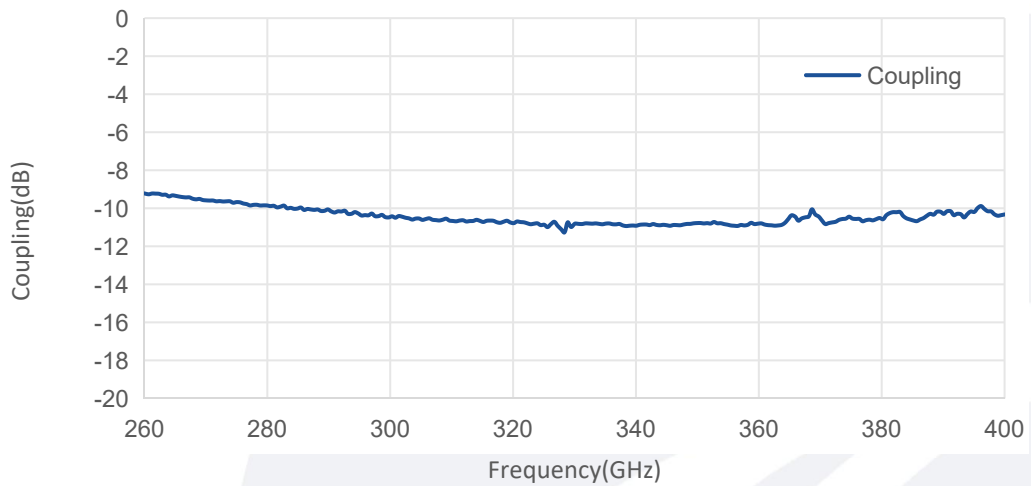
标准型号 Base Number	描述 Description	版本号 Revision
TDC-260400-10-2.8	Waveguide Directional Coupler, 260-400GHz, Coupling: 10dB Typ, WR-2.8/UG-387/U	Rev.1.0

典型曲线 Typical Performance Data:

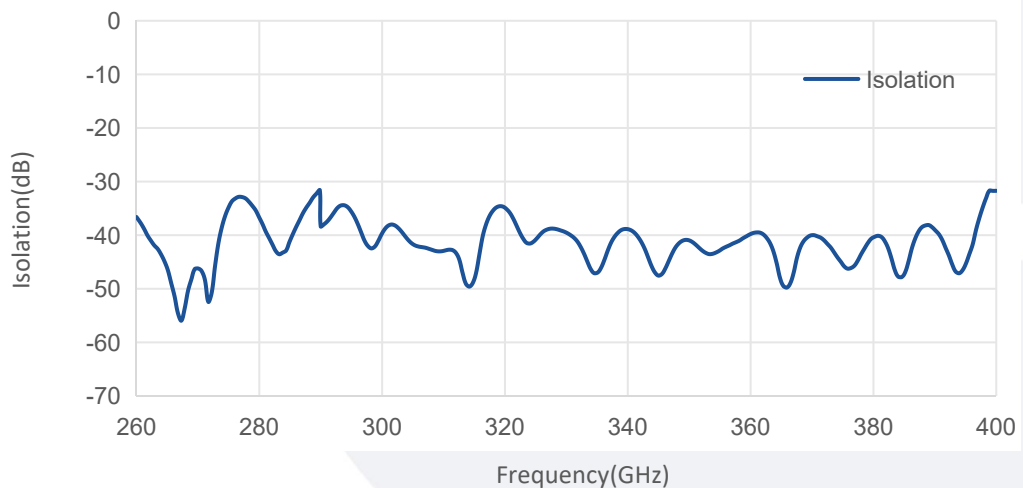
Insertion Loss vs Frequency



Coupling vs Frequency



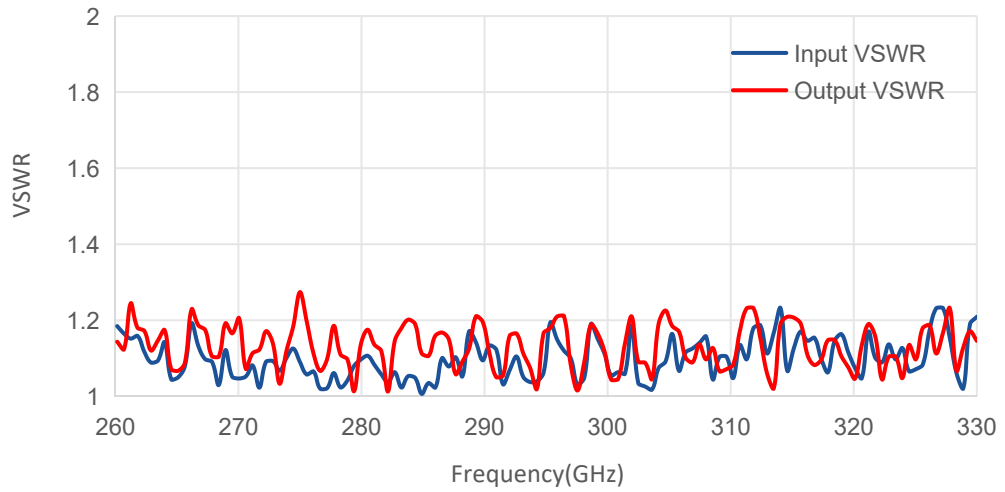
Isolation vs Frequency



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.