

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

Electrical Characteristics:

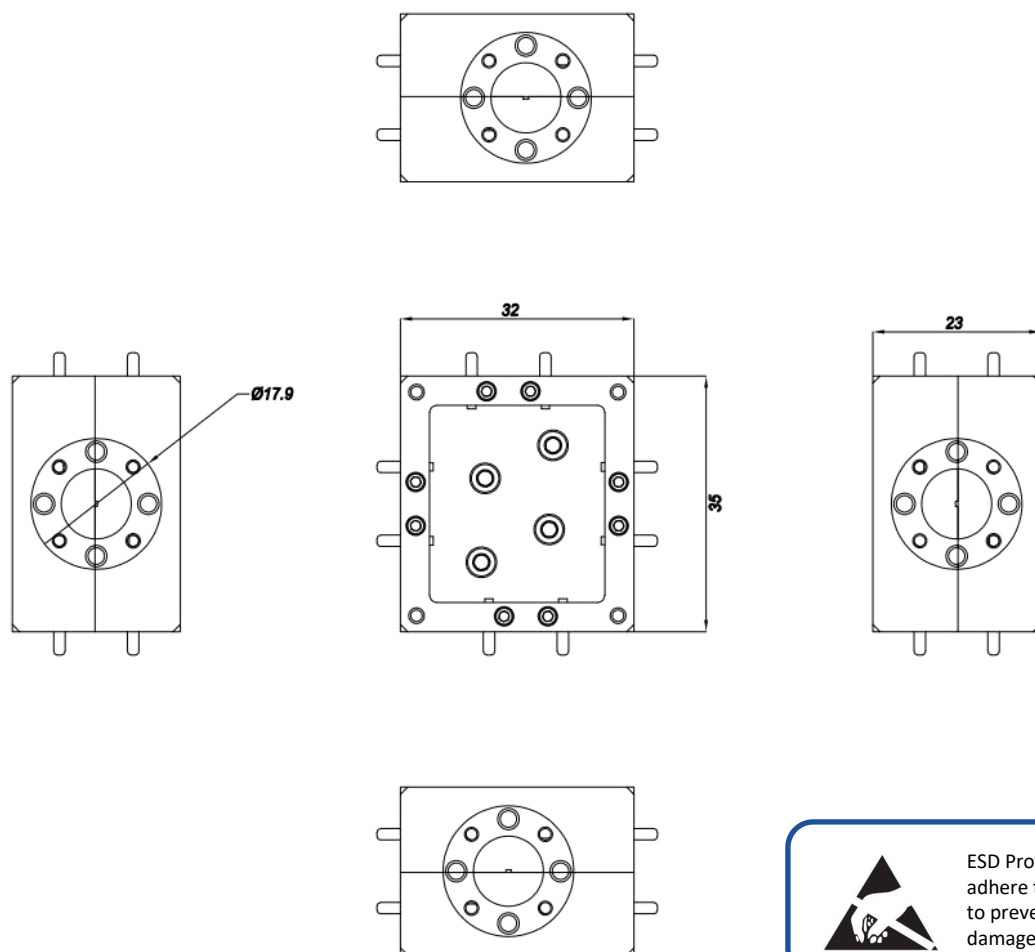
Parameter	Min	Typ	Max	Units
Frequency Range	260		400	GHz
Insertion Loss		3		dB
Coupling		10		dB
Isolation		30		dB
Directivity		20		dB
Input VSWR		1.2		:1
Output VSWR		1.2		:1

Envrionmental And Physical Characteristics:

Description	Parameter	Units
Operating Temperature	-40 To +85	°C
Storage Temperature	-40 to +85	°C
Waveguide Connectors	WR-2.8/UG-387/U	
Coupled Port	WR-2.8/UG-387/U	
Size	32*35*23	mm

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



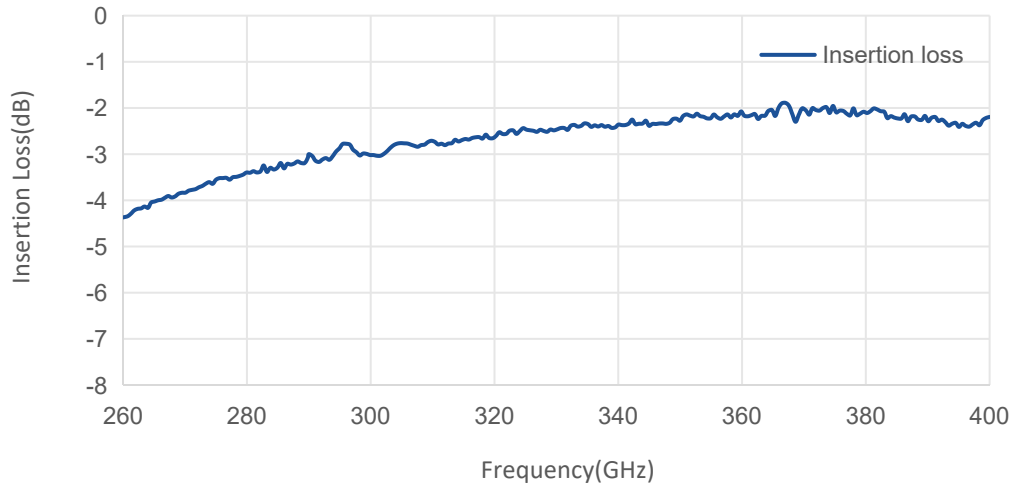
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

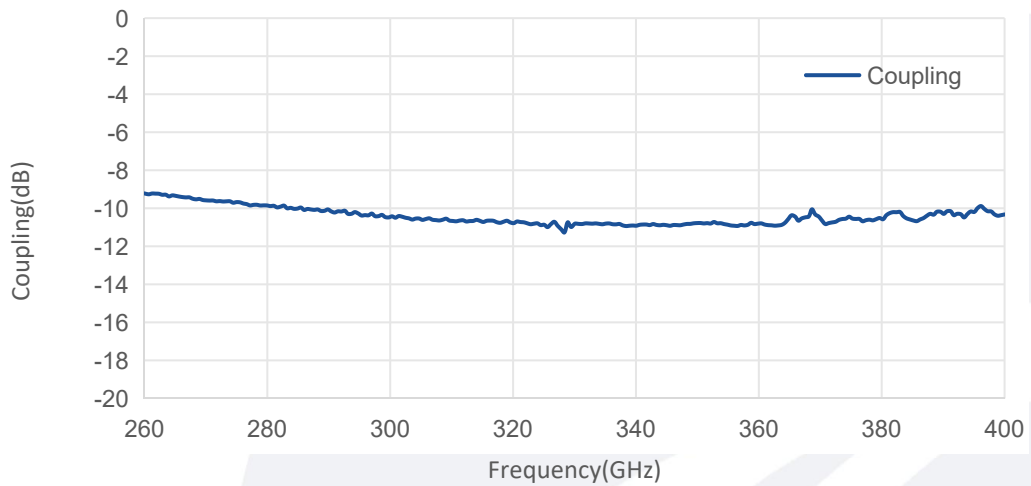
Base Number	Description	Revision
TDC-260400-10-2.8	Waveguide Directional Coupler, 260-400GHz, Coupling: 10dB Typ, WR-2.8/UG-387/U	Rev.1.0

Typical Performance Data:

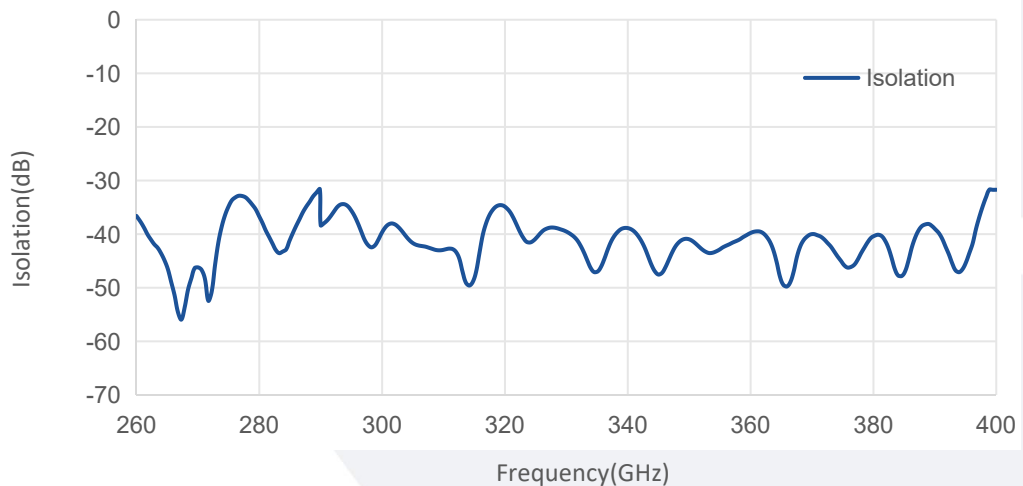
Insertion Loss vs Frequency



Coupling vs Frequency



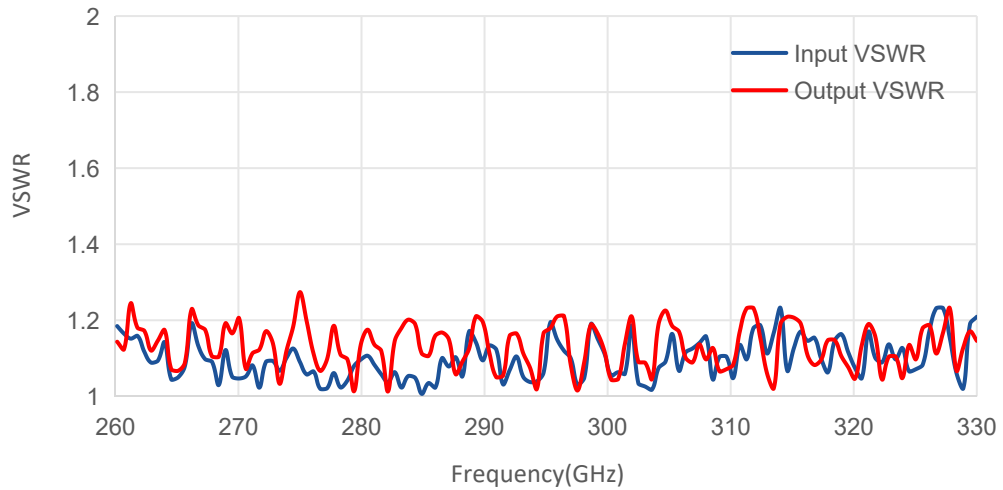
Isolation vs Frequency



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.

Typical Performance Data:

VSWR vs Frequency



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