

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

Electrical Characteristics:

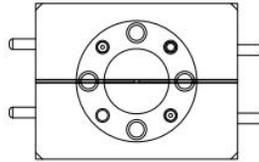
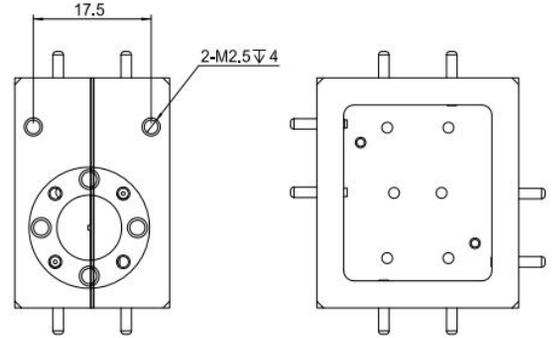
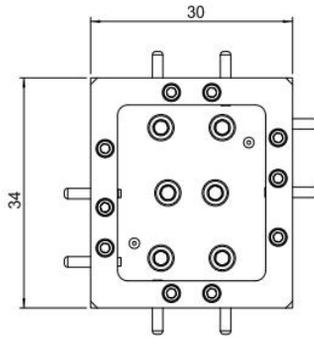
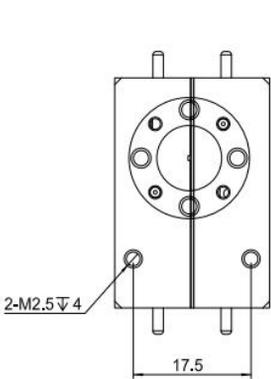
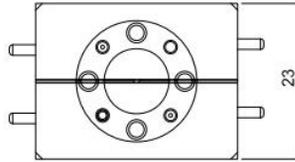
Parameter	Min	Typ	Max	Units
Frequency Range	260		400	GHz
Insertion Loss		3		dB
Coupling		20		dB
Isolation		50		dB
Directivity		30		dB
Input VSWR		1.2		:1
Output VSWR		1.2		:1

Environmental 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	30*34*23	mm

Outline Drawing:

Unit:mm



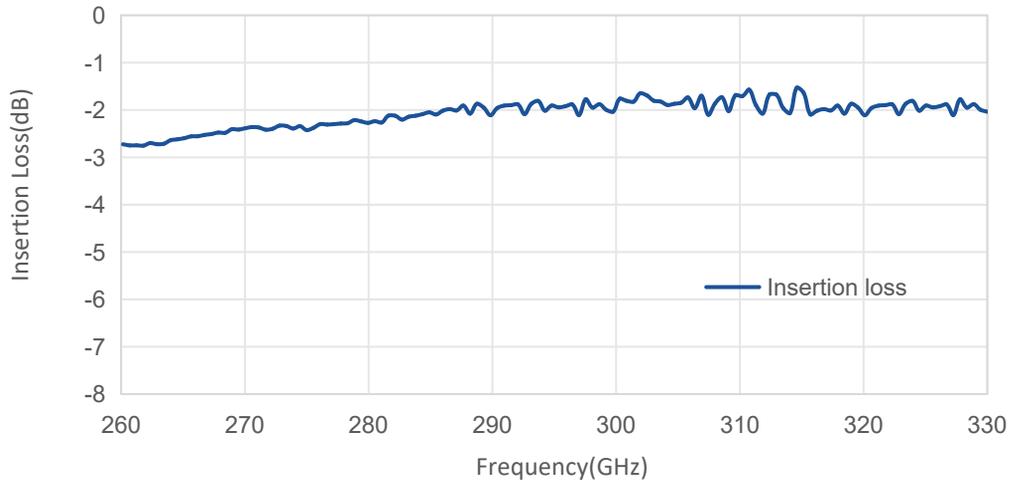
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

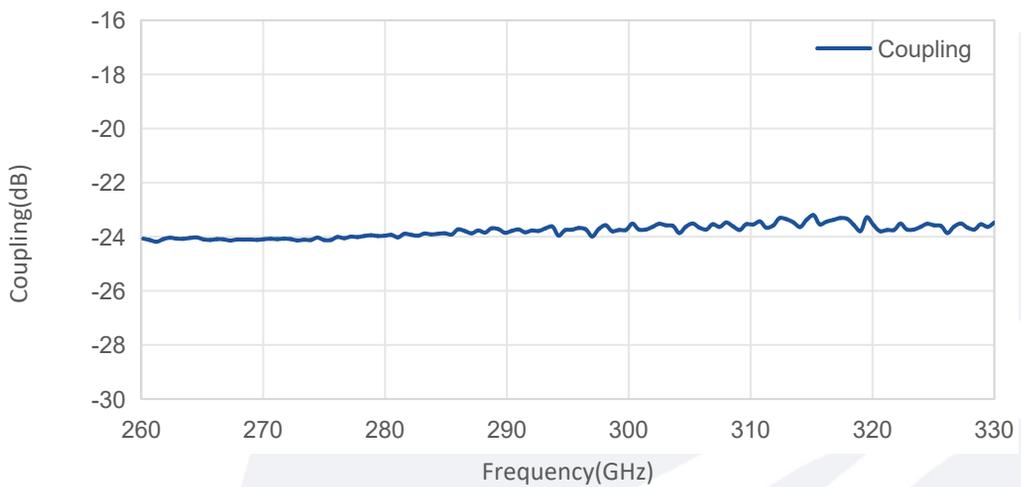
Base Number	Description	Revision
TDC-260400-20-2.8-B	Waveguide Directional Coupler,260-400GHz, Coupling:20dB Typ,WR-2.8/UG-387/U	Rev.1.0

Typical Performance Data:

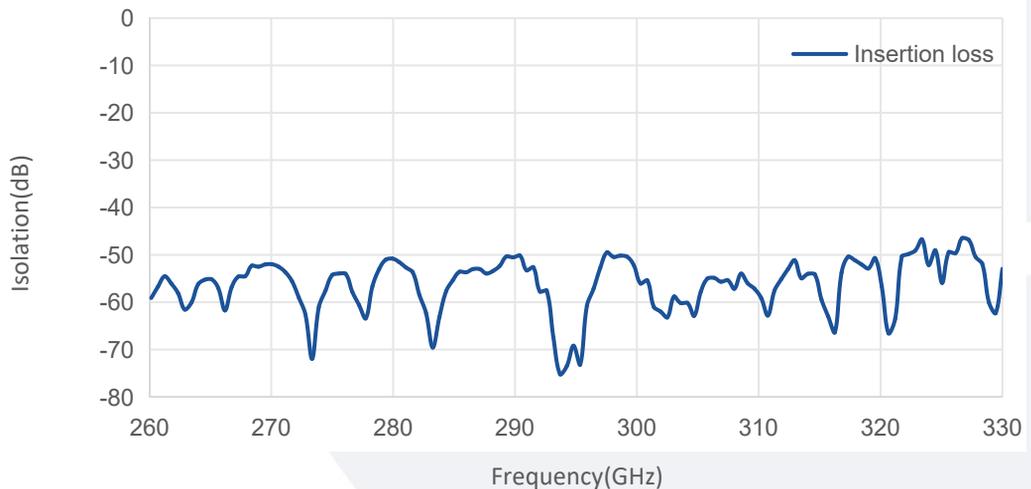
Insertion Loss vs Frequency



Coupling vs Frequency



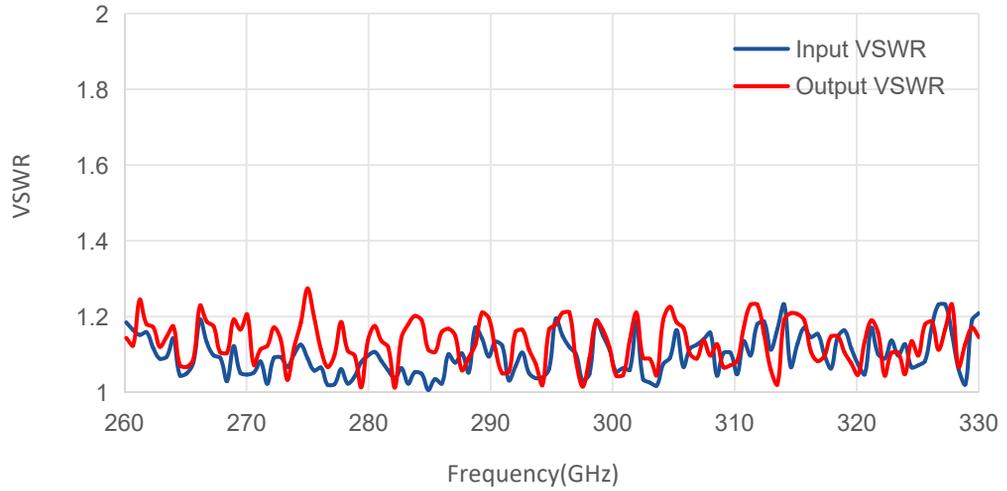
Isolation vs Frequency



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



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.