

G-band Waveguide Directional Coupler

WR-5.1/20 dB Coupling

Model: TC-140220-20-05

TC-140220-20-05 is a G-band, three-port waveguide directional coupler that delivers a 20 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 140 to 220 GHz. The interfaces of the coupler are WR-5.1 waveguides with UG-387/U-M anti-cocking flanges.

Features:

- Operating Frequency: 140 to 220 GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Characteristics:

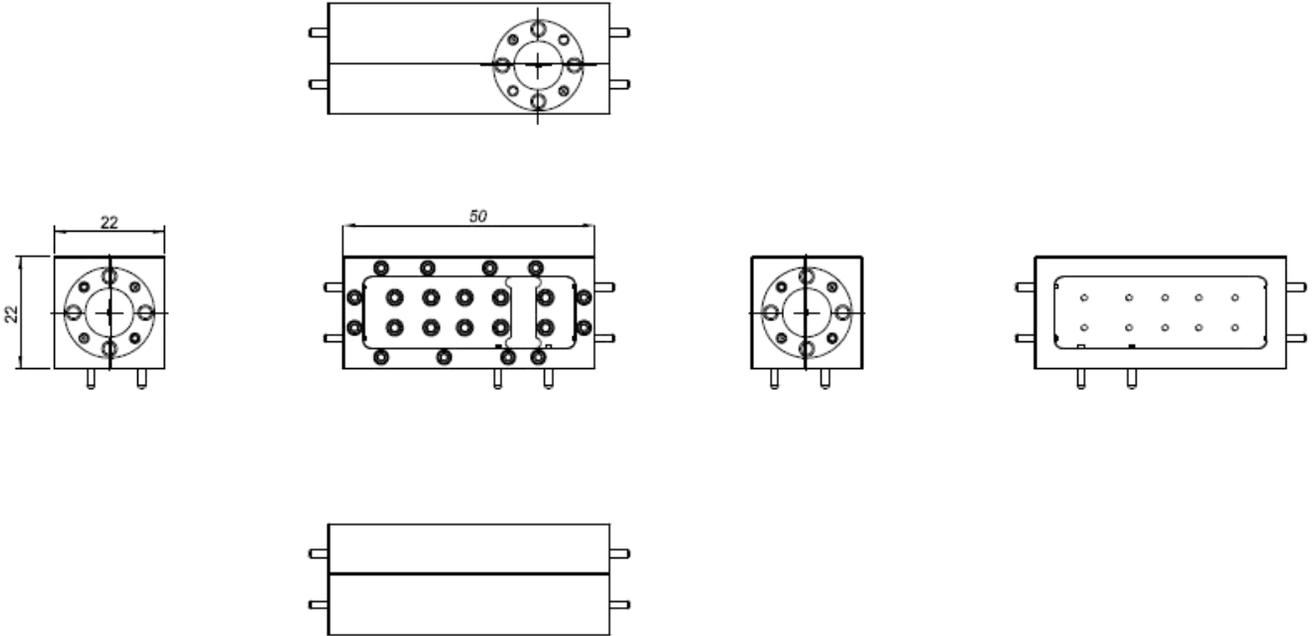
Parameter	Min	Typ	Max	Units
Frequency Range	140		220	GHz
Insertion Loss		1.2		dB
Coupling		20		dB
Directivity		30		dB
Input VSWR		1.1		:1
Output VSWR		1.1		:1

Environmental And Physical Characteristics:

Description	Parameter	Units
Operating Temperature	-40 To +85	°C
Storage Temperature	-40 to +85	°C
Waveguide Connectors	WR-5.1/UG-387/U	
Coupled Port	WR-5.1/UG-387/U	
Size	50*22*22	mm

Outline Drawing:

Unit:mm



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

Ordering Information:

Base Number	Description	Revision
TC-140220-20-05	G-band Waveguide Directional Coupler,140-220GHz, Insertion Loss:1.2dB Typ, Coupling:20dB Typ,WR-5.1	Rev.1.0