泰莱微波
Talent Microwave

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K-band Waveguide Directional Coupler

WR-42/WR-42/10dB Coupling

Model: TC-018026-10-42

TC-018026-10-42 is a K-band, three-port waveguide directional coupler that delivers a 10 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 18 to 26.5 GHz. The interfaces of the directional coupler are WR-42 waveguides with UG-595/U anti-cocking flanges.

Features:

- Operating Frequency 18 to 26.5GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
Insertion Loss		0.5		dB
Coupling		10		dB
Coupling Accuracy		±2		dB
Isolation		40		dB
Directivity		30		dB
Main Line VSWR		1.1		:1
Coupling Port VSWR		1.1		:1

Envrionmental And Physical Characteristics:

Parameter	Value	Units
Operating Temerature	-40 To +85	℃
Storage Temerature	-40 to +85	℃
RF Connectors	WR-42/UG-595/U	
Coupled Port	WR-42/UG-595/U	
Size	180*30.66*37.25	mm

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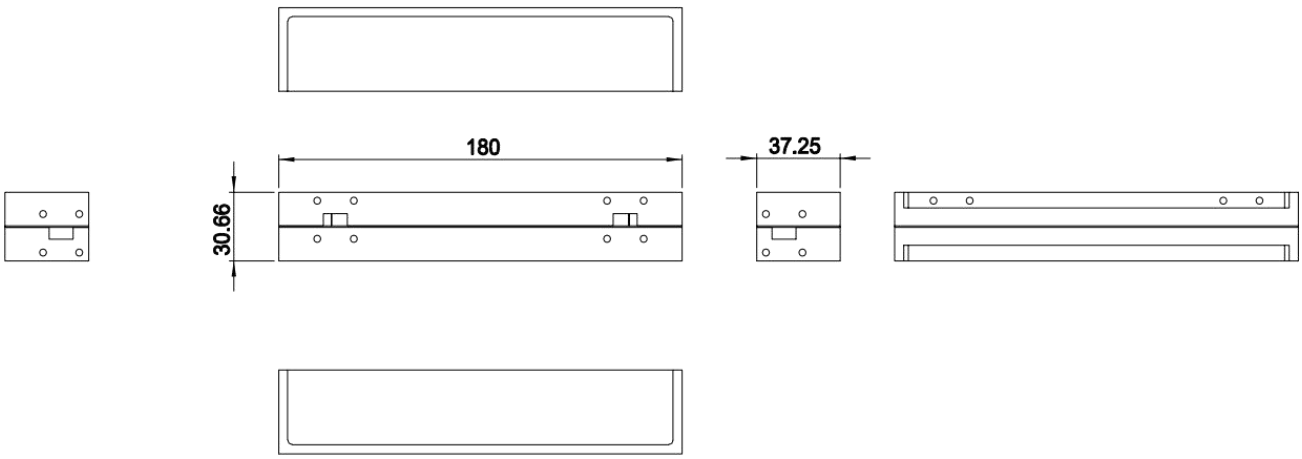
Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Ordering Information:

Base Number	Description	Revision
TC-018026-10-42	K-band Waveguide Directional Coupler, 18-26.5GHz, Coupling:10dB Typ, WR-42/UG-595/U	Rev.1.0