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 flanges.

Features:

- Operating Frequency 18 to 26.5GHz
- 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	18		26.5	GHz
插损 Insertion Loss		0.5		dB
耦合度 Coupling		10		dB
耦合精度 Coupling Accuracy		±2		dB
隔离度 Isolation		40		dB
方向性 Directivity		30		dB
主线驻波 Main Line VSWR		1.1		:1
耦合口驻波 Coupling Port VSWR		1.1		:1

环境和机械特性 Envrionmental And Physical Characteristics:

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temerature	-40 To +85	℃
存储温度 Storage Temerature	-40 to +85	℃
RF接口 RF Connectors	WR-42 Waveguide with UG/595 Flange	
耦合接口 Coupled Port	WR-42 Waveguide with UG/595 Flange	
尺寸 Size	180*42*30	mm

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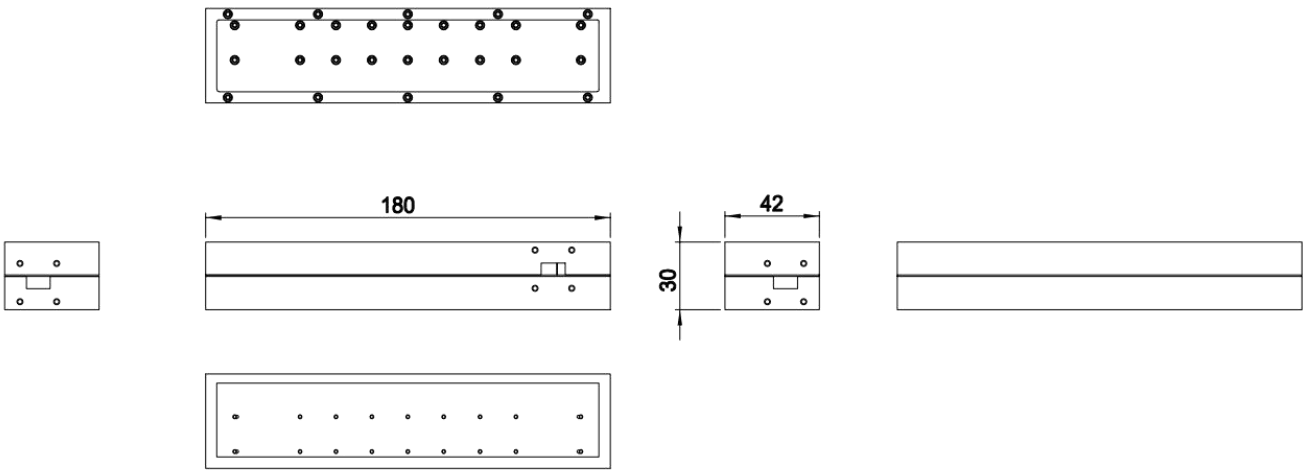
外形图 Outline Drawing:

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
TC-018026-10-42	K-band Waveguide Directional Coupler, 18-26.5GHz, Coupling:10dB Typ, WR-42/UG-595/U	Rev.1.1