泰莱微波 Talent Microwave

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V-Band,2-Way Waveguide Power Divider

50-75GHz/0.5dB,Insertion Loss/180° Model: TLPD-050075-2-15-180

The TLPD-050075-2-15-180 is a full band WR-15, 2-way power divider that operates from 50 to 75 GHz. The power divider offers a typical insertion loss of 0.5 dB. Across the full band, all ports feature excellent amplitude balance and support out-of-phase distribution, making them suitable for power dividing or combining applications. The power divider is configured as an inline package with WR-15 waveguides and UG-385/U-M compatible anti-cocking flanges at all ports.

Features:

- Frequency range: 50-75GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations
- Twist Compatible

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	50		75	GHz
插损 Insertion Loss		0.5		dB
幅度平衡 Amplitude Balance		±0.3		dB
端口隔离 Port Isolation		20		dB
回波损耗 Return Loss		-20		dB

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-15/UG-385/U	
尺寸 Size	20*25*40	mm
材质 Material	Brass	
表面处理 Finish	Gold plated	

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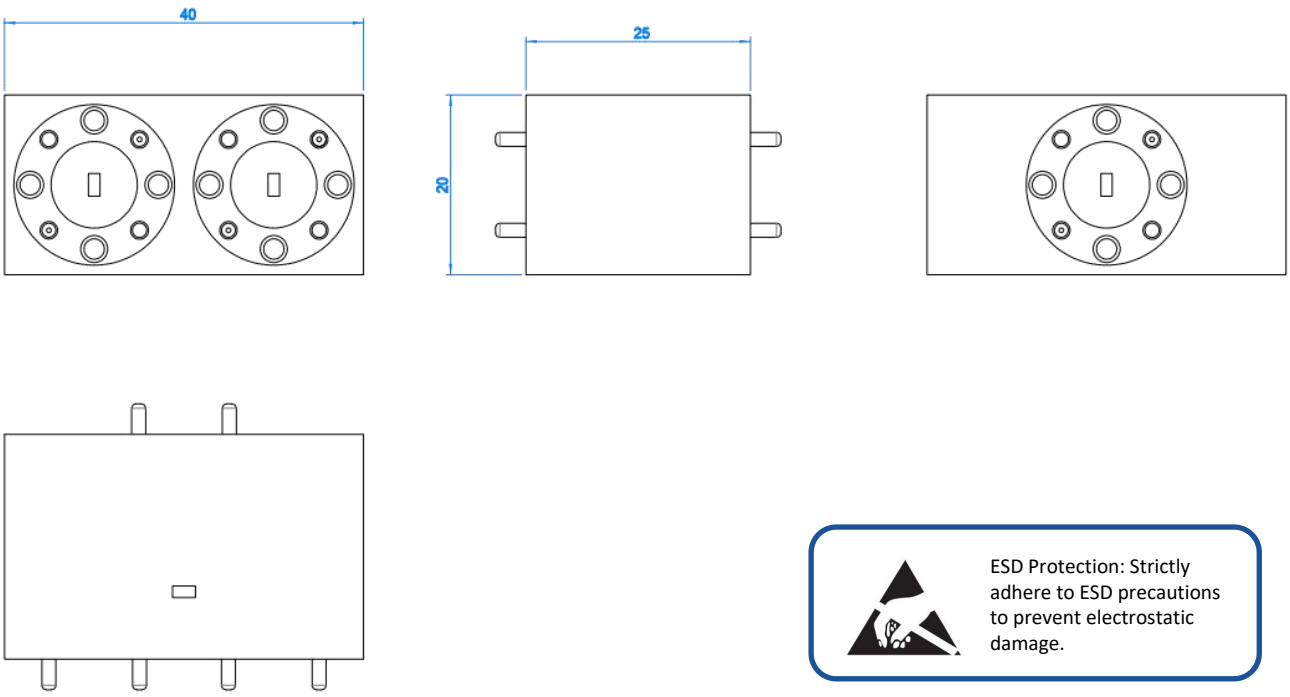
外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPD-050075-2-15-180	2-Way waveguide power divider, 50-75GHz, out-of-phase	Rev.1.0