Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

W-Band,2-Way Waveguide Power Divider

75-110GHz/0.5dB,Insertion Loss/180° Model: TLPD-075110-2-10-180

The TLPD-075110-2-10-180 is a full band WR-10, 2-way power divider that operates from 75 to 110 GHz. The power divider offers a typical insertion loss of 0.5dB. 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-10 waveguides and UG-387/U-M compatible anti-cocking flanges at all ports .

Features:

- Frequency range: 75-110GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Insertion Loss		0.5		dB
Amplitude Balance		±0.3		dB
Port Isolation		17		dB
Return Loss		-17		dB

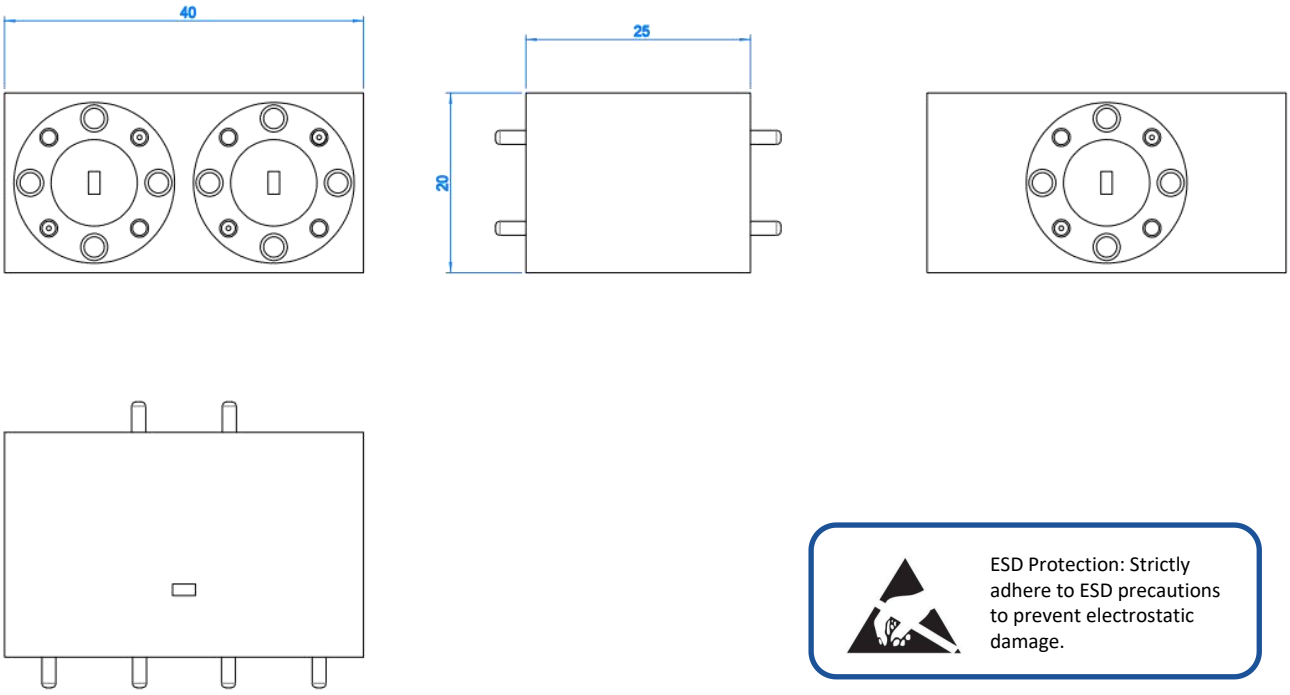
Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-10/UG-387/U	
Size	20*25*40	mm
Material	Brass	
Finish	Gold plated	

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Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

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

Ordering Information:

Base Number	Description	Revision
TLPD-075110-2-10-180	2-Way waveguide power divider, 75-110GHz, out-of-phase	Rev.1.0