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G-Band,2-Way Waveguide Power Divider

140-220GHz/1.7dB,Insertion Loss/17dB,Isolation Model: TLPD-140220-2-05

The TLPD-140220-2-05 is a full band WR-5.1, 2-way power divider that operates from 140 to 220 GHz. The power divider offers a typical insertion loss of 1.7dB and typical isolation of 17 dB. All ports are well-balanced and in-phase for power dividing or combining applications across the band. The power divider is configured as aninlinepackage with WR-5.1 waveguides and UG-387/U-M compatible anti-cocking flanges at all ports .

Features:

- Frequency range: 140-220GHz
- 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	140		220	GHz
Insertion Loss		1.7		dB
Amplitude Balance		±0.6		dB
Port Isolation		17		dB
Input Return Loss		-15		dB
Output Return Loss		-15		dB

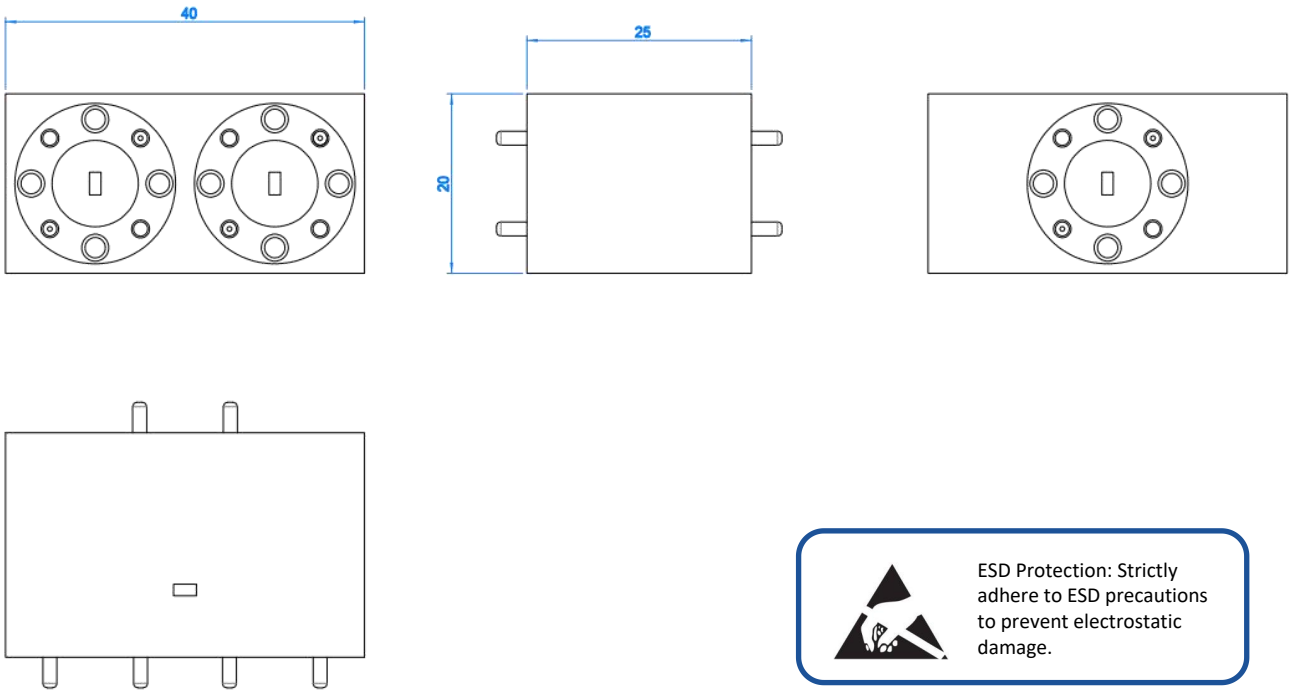
Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-5.1/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-140220-2-05	2-Way waveguide power divider, 140-220GHz, Insertion loss: 1.7dB, Port Isolation: 17dB	Rev.1.0