

D-Band, 2-Way Waveguide Power Divider

110-170GHz/1.5dB, Insertion Loss/17dB, Isolation

Model: TLPD-110170-2-06

The TLPD-110170-2-06 is a full band WR-6.5, 2-way power divider that operates from 110 to 170 GHz. The power divider offers a typical insertion loss of 1.5dB 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 an inline package with WR-6.5 waveguides and UG-387/U-M compatible anti-cocking flanges at all ports .

Features:

- Frequency range: 110-170GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

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

Electrical Characteristics:

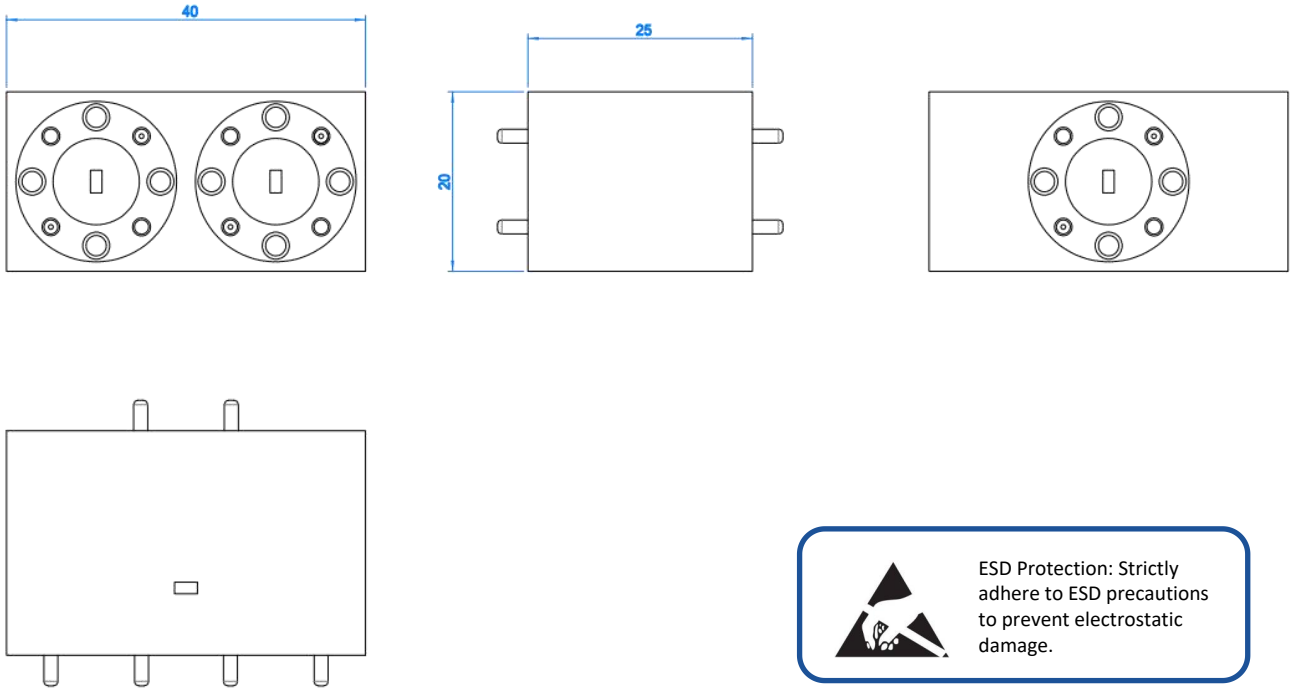
Parameter	Min	Typ	Max	Units
Frequency range	110		170	GHz
Insertion Loss		1.5		dB
Amplitude Balance		±0.6		dB
Port Isolation		17		dB
Input Return Loss		-17		dB
Output Return Loss		-17		dB

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-6.5/UG-387/U	
Size	20*25*40	mm
Material	Brass	
Finish	Gold plated	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
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-110170-2-06	2-Way waveguide power divider, 110-170GHz, Insertion loss: 1.5 dB, Port Isolation: 17dB	Rev.1.0