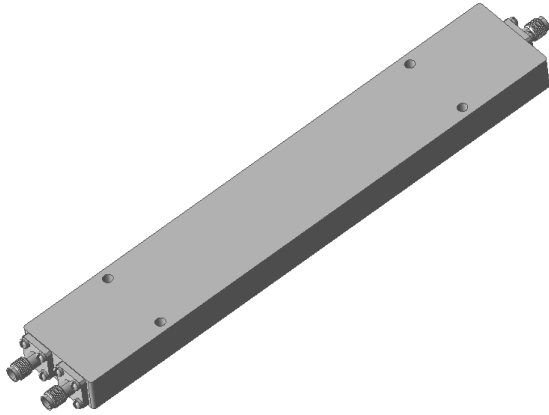


50 ohms 2 way Power Divider 2.4mm Connectors From 0.5GHz to 50GHz Rated at 20 Watts

Technology Specifications Rev:A0

P019-250718



Power Divider

- ◆ 2-Way Power Divider
- ◆ Wilkinson Design
- ◆ Wide Frequency Range
- ◆ Excellent Reliability
- ◆ Customization available

The HPD0.5-50G-224 is a 2 way Wilkinson power divider that operates from 0.5 to 50 GHz and can handle up to 20 Watts . This power divider offers 15 dB Isolation and 1.60:1 max VSWR. The package interface uses 2.4mm connectors on all of the ports.

The electrical specifications apply for at TA=+25°C in a 50Ω system.

Electrical Specifications				
Parameter	Units	Min.	Typ.	Max.
Frequency Range:	GHz	0.5		50
Nominal Splitter Loss ¹ :	dB		3.0	
Excess Insertion Loss ² :	dB		2.5	3.0
Input VSWR:	/		1.4:1	1.6:1
Output VSWR:	/		1.4:1	1.6:1
Isolation:	dB	15	18	
Amplitude Balance:	dB		±0.4	±0.5
Phase Balance:	Deg		±4.0	±6.0
Forward Power	W cw			20
Reverse Power	W cw			0.5

Note:

[1] Nominal Splitter Loss based on splitter factor.

[2] Excess Insertion Loss = (Input Port to Output Port Insertion Loss) – Nominal Splitter Loss.

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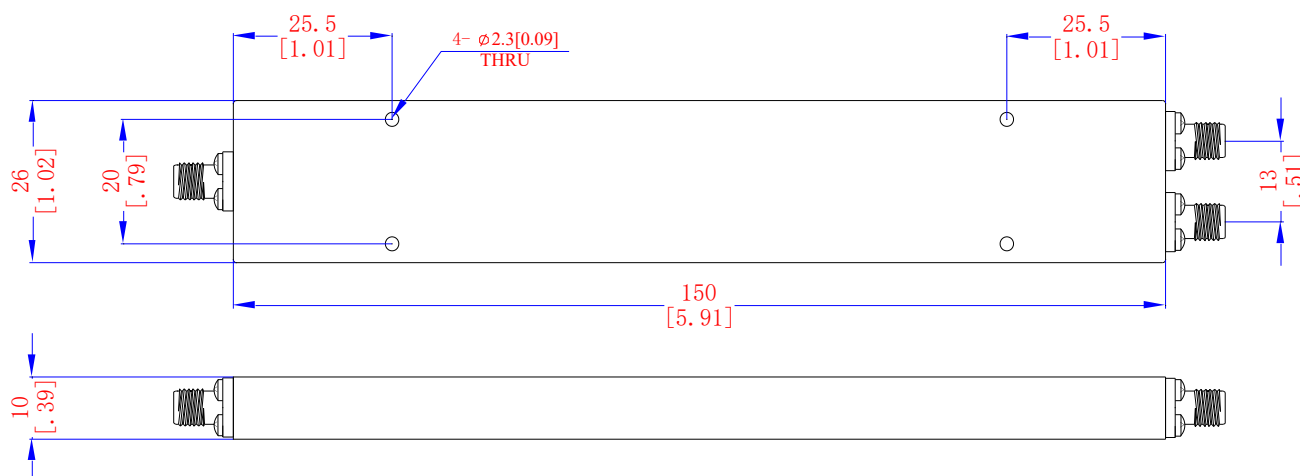
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Mechanical Specifications	
Input and Output Connectors:	2.4mm-Female(50Ω)
Coupling Connector:	2.4mm-Female(50Ω)
Dimensions(mm):	150*26*10
ROHS:	Yes
Material:	Aluminum
Weight(Kg):	TBD
Surface Finish:	Black Paint
Environmental Specification	
Operating Temp.	-40°C to +70°C
Storage Temp.	-55°C to +85°C
Environment Class:	TBD
Altitude:	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)(Optional)
Humidity:	95%RH at 40°C
Shock:	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

Outline Tolerances $\pm 0.3(0.012)$



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Test Plots

