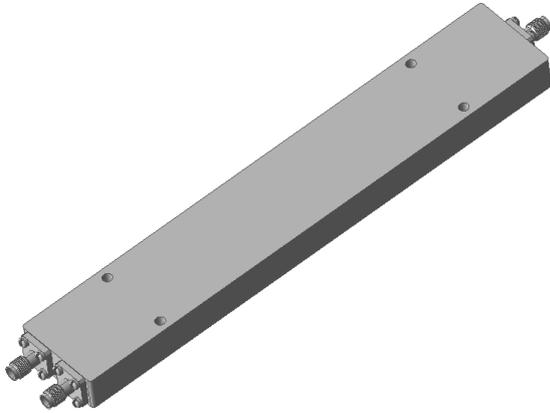


50 ohms 2 way Power Divider 2.92 Connectors From 0.5GHz to 40GHz Rated at 30 Watts

Technology Specifications Rev:A0

P01-250718



Power Divider

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

The HPD0.5-40G-2K is a 2 way Wilkinson power divider that operates from 0.5 to 40 GHz and can handle up to 30 Watts . This power divider offers 15 dB Isolation and 1.60:1 max VSWR. The package interface uses 2.92 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 | | 40 |
| Nominal Splitter Loss ¹ : | dB | | 3.0 | |
| Excess Insertion Loss ² : | dB | | 2.0 | 2.5 |
| Input VSWR: | / | | 1.4:1 | 1.6:1 |
| Output VSWR: | / | | 1.4:1 | 1.6:1 |
| Isolation: | dB | 15 | 18 | |
| Amplitude Balance: | dB | | ±0.3 | ±0.5 |
| Phase Balance: | Deg | | ±3.0 | ±5.0 |
| Forward Power | W cw | | | 30 |
| Reverse Power | W cw | | | 2 |

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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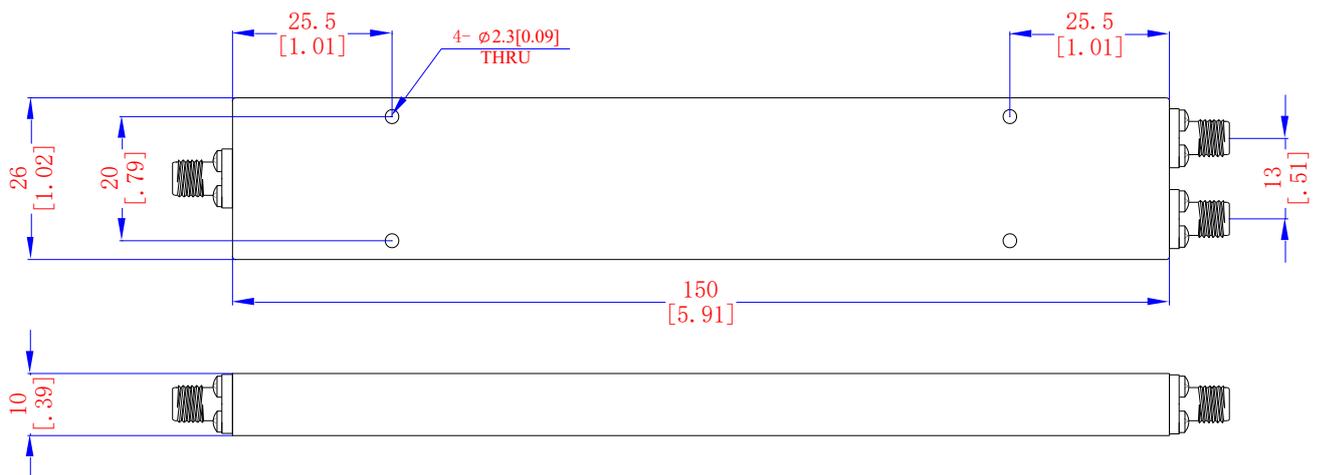
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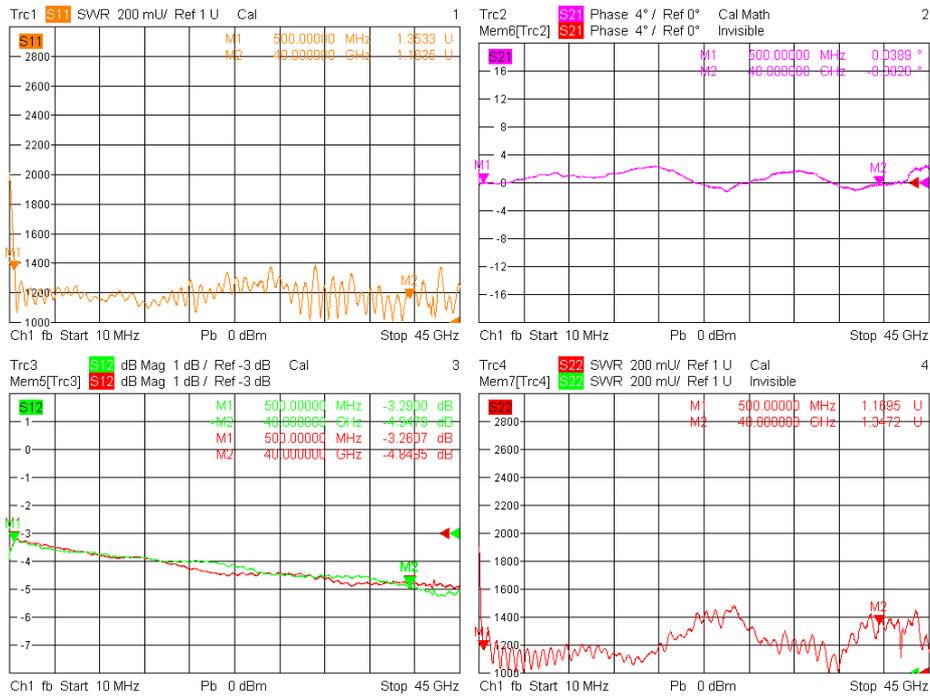
| Mechanical Specifications | |
|------------------------------|---|
| Input and Output Connectors: | 2.92-Female(50Ω) |
| Coupling Connector: | 2.92-Female(50Ω) |
| Dimensions(mm): | 150*26*10 |
| ROHS: | Yes |
| Material: | Aluminum |
| Weight(Kg): | TBD |
| Surface Finish: | Black Paint |
| Environmental 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:

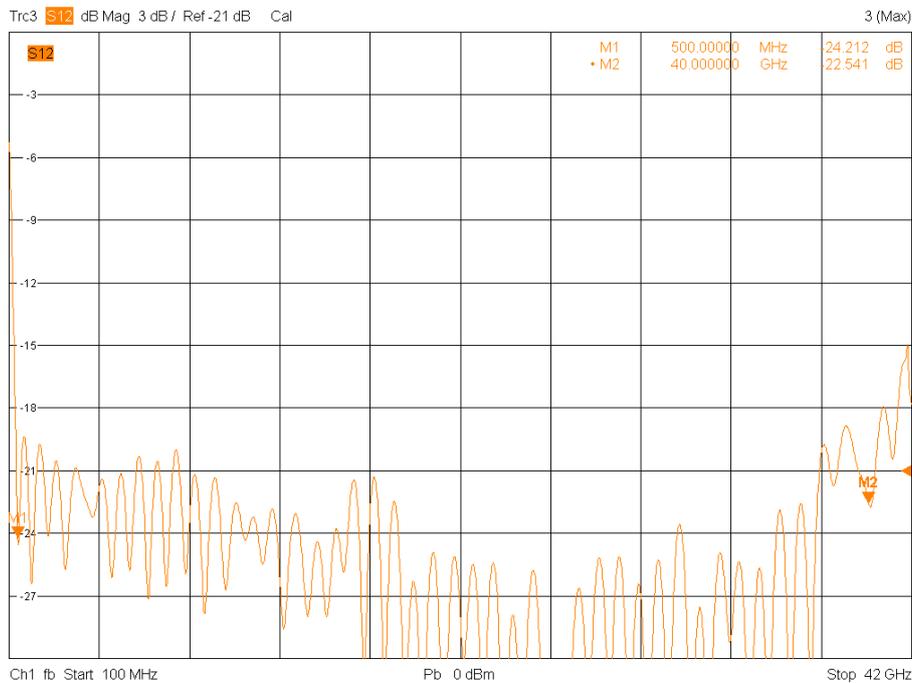
All Dimensions in mm (inches)

Outline Tolerances ±0.3(0.012)



Test Plots


7/18/2025, 6:48 AM



8/21/2025, 5:32 AM