

Power Divider

D-2185

SMA 2-way Power Divider from 500 MHz to 18 GHz

Werbel Microwave designs and manufactures a wide selection of power dividers combiners splitters. These components are used in RF systems to combine multiple signals or split into multiple signals of equal magnitude and phase. Werbel Microwave offers designs of Wilkinson, resistive, ferrite and reactive technology and are among the highest performance in the industry.

The D-2185 is a 2-way Wilkinson divider that operates from 500 MHz to 18 GHz and can handle up to 30 watts CW as a splitter. It is part of Werbel Microwave's catalog of splitters that offer a wide range of port count and frequency ranges.

Electrical Specifications at +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, sea level

Parameter	Unit	Min	Typ.	Max
Frequency Range	MHz	500		18000
Insertion Loss				
500–5000 MHz	dB			1.0
5000–10000 MHz	dB			1.2
10000–15000 MHz	dB			1.6
15000–18000MHz	dB			1.9
Input/Common VSWR	:1			1.8
Output/Split VSWR	:1			1.8
Isolation				
500-600MHz	dB	12		
600-18000MHz	dB	14		
Amplitude Balance	dB			0.9
Phase Balance	Deg			10
Input Power (CW)	W			20
Operating Temperature	°C	-55		+85
Storage Temperature	°C	-55		+100
Weight	oz (g)		3.7 (105)	
Humidity (non-condensing)	%	10		90
Housing Material	Aluminum			
Connectors Material	Stainless Steel			

Insertion loss is above theoretical splitting loss.

Max input power rated for use as a splitter into load VSWR better than 1.20:1.

Commonly used bands covered by this model include: 698MHz-2.7GHz, L band 1 to 2 GHz, S band 2 to 4 GHz, C band 4 to 8 GHz, X band 8 to 12 GHz, Ku band 12 or 12.4GHz to 18GHz.

Picture:



Features:

- Wide Bandwidth
- Low Insertion Loss
- Small Size

Applications:

- Test and Measurement
- Military Communications
- Commercial Telecom
- Wireless, Satellite

ISO 9001:2015 Certified



Made in USA



Werbel Microwave LLC

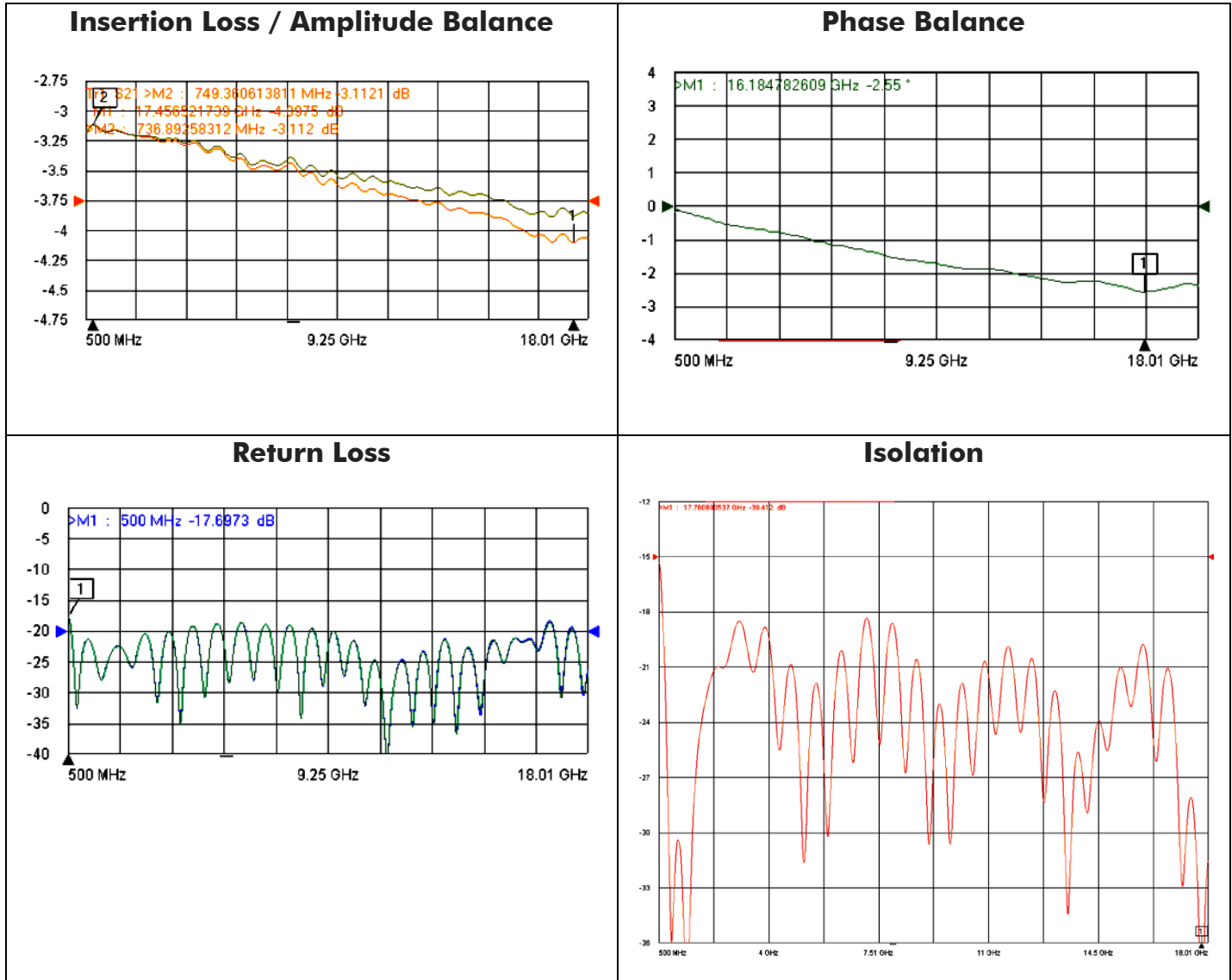
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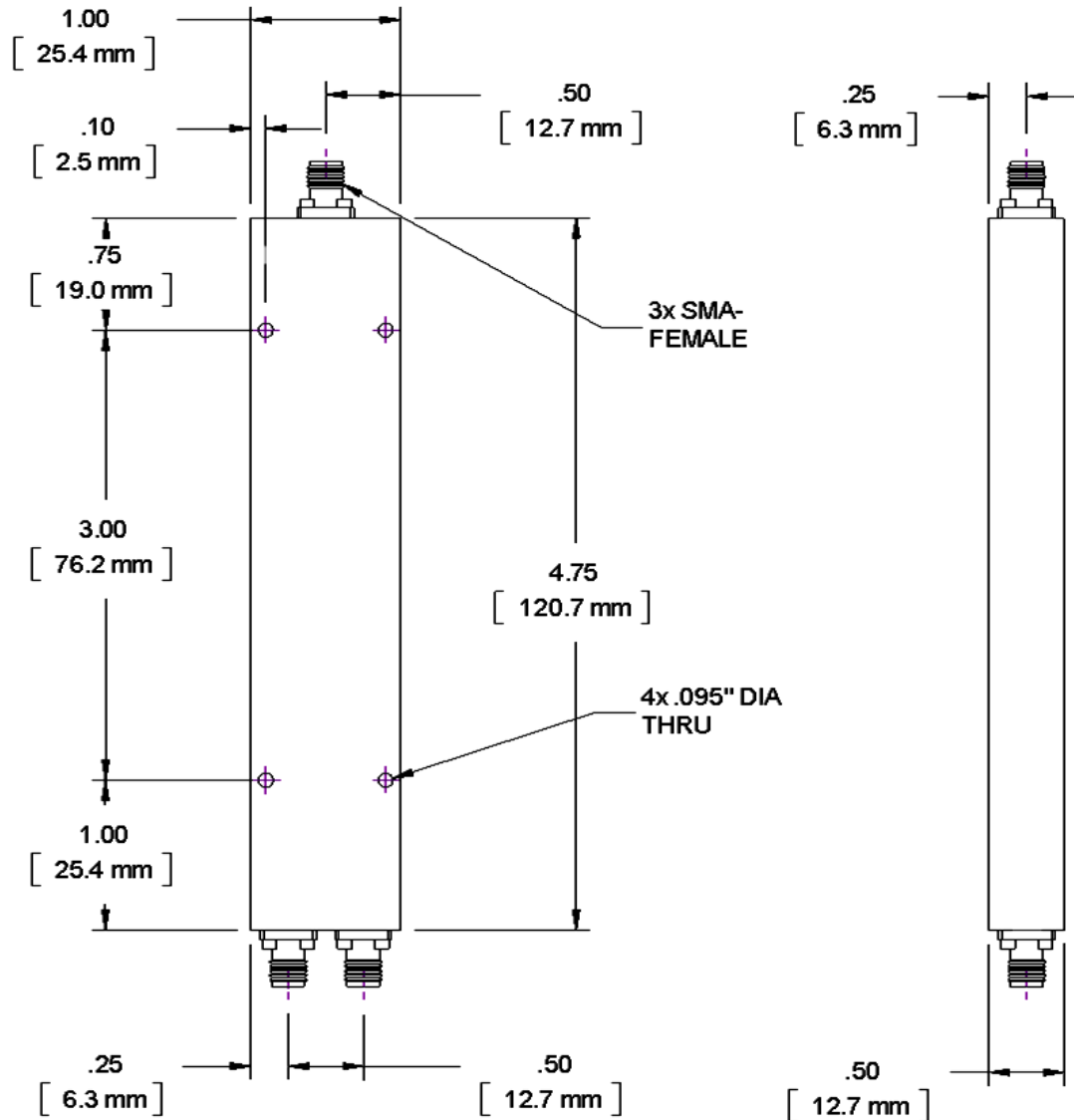
Typical Performance at +25 °C



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Mechanical Outline Drawing



UNLESS OTHERWISE SPECIFIED: Dimensions are in inches, [mm] shown for convenience.
Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$. Angles: $\pm 1^\circ$.

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