

SMA 4-way Power Divider from 500 MHz to 2 GHz

Power Divider Spec Sheet

D-4025

Description

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-4025 is a 4-way Wilkinson divider that operates from 500 MHz to 2 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.



Specification	Min	Typ.	Max	Units
Frequency	0.5		2	GHz
Impedance		50		Ohm
VSWR (common port)		1.46	1.55	:1
VSWR (split ports)		1.12	1.55	:1
Insertion Loss Measured at Highest Frequency (above theoretical coupling/splitting loss)		0.55	0.7	dB
Isolation	18	23		dB
Amplitude Balance		0.1	0.8	dB
Phase Balance		2	6	Degrees
Power Handling as Splitter into 1.2:1 max load VSWR			30	Watts (CW)

Mechanical

Connector Interface	SMA-Female
Operating Temperature*	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	3.2 oz (90 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only

Materials

RoHS Compliant

Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Gray

* Design to meet based on materials. Production-tested at +25 °C. External heatsink and convection cooling recommended to maintain body temperature below +50 °C.



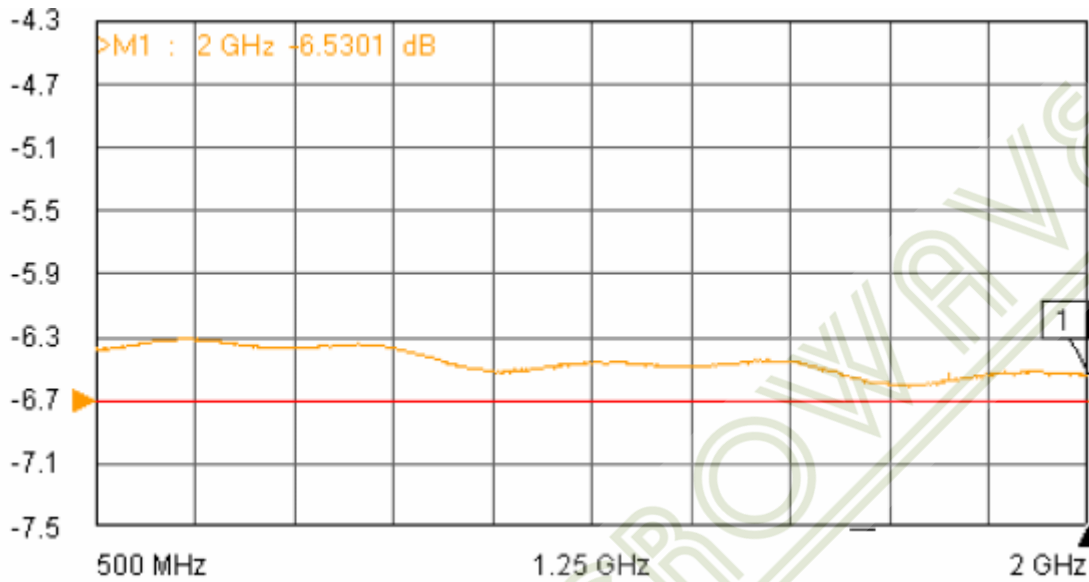
MADE IN USA

ISO 9001:2015

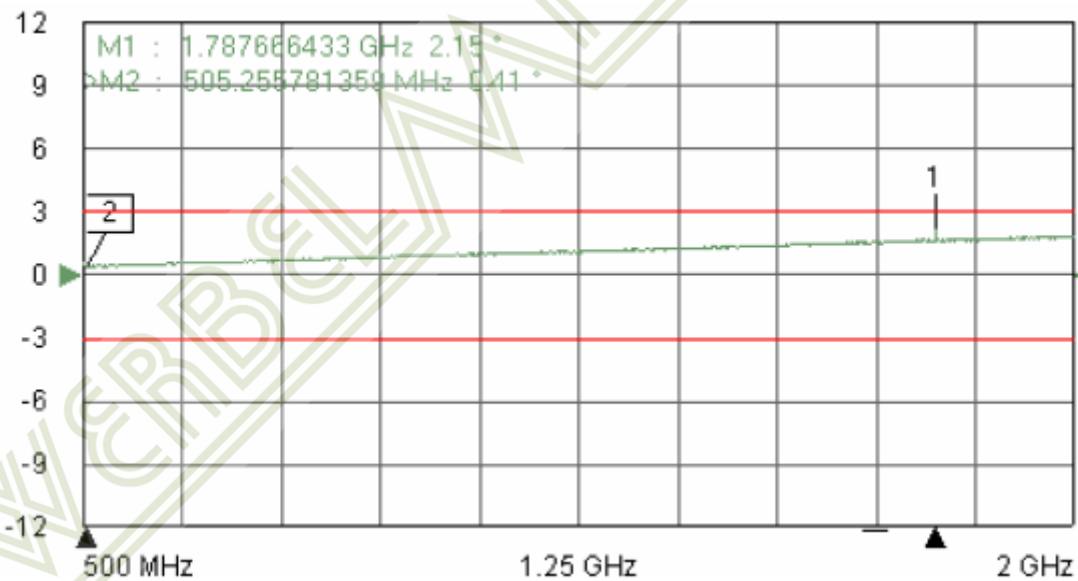
Certified Company

Typical Performance at +25 °C

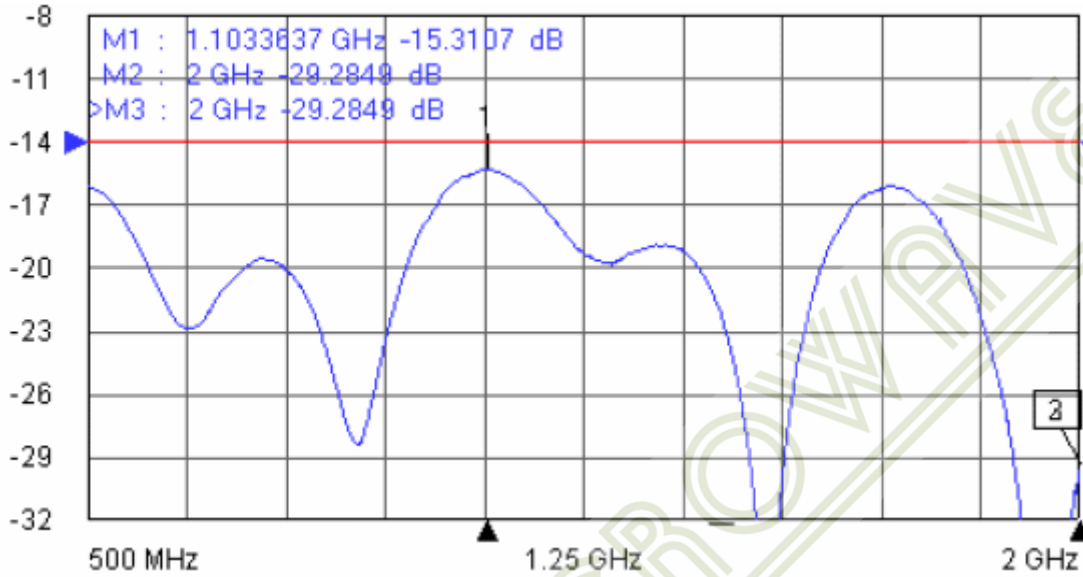
Insertion Loss



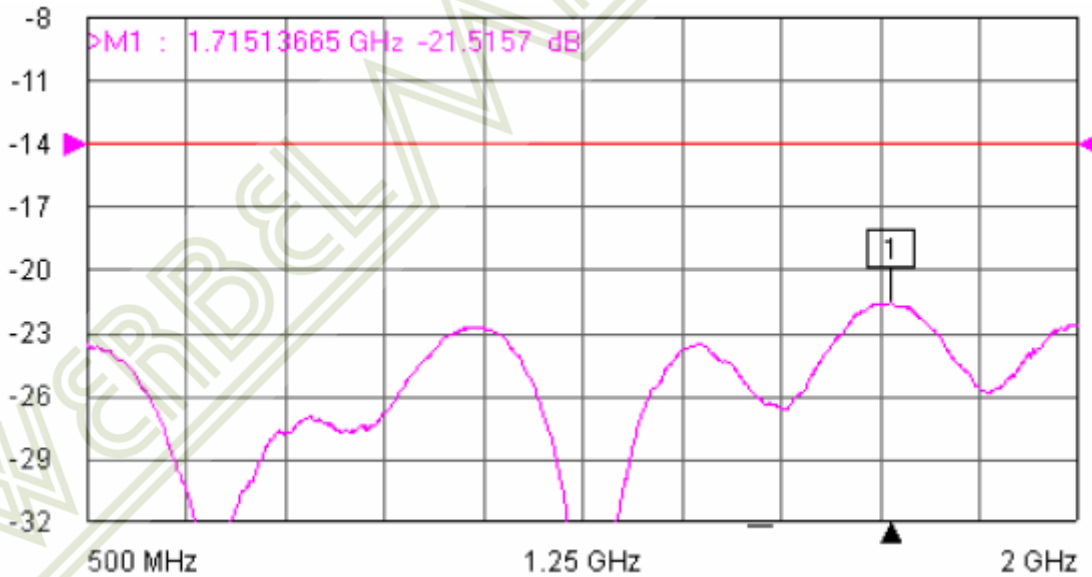
Phase



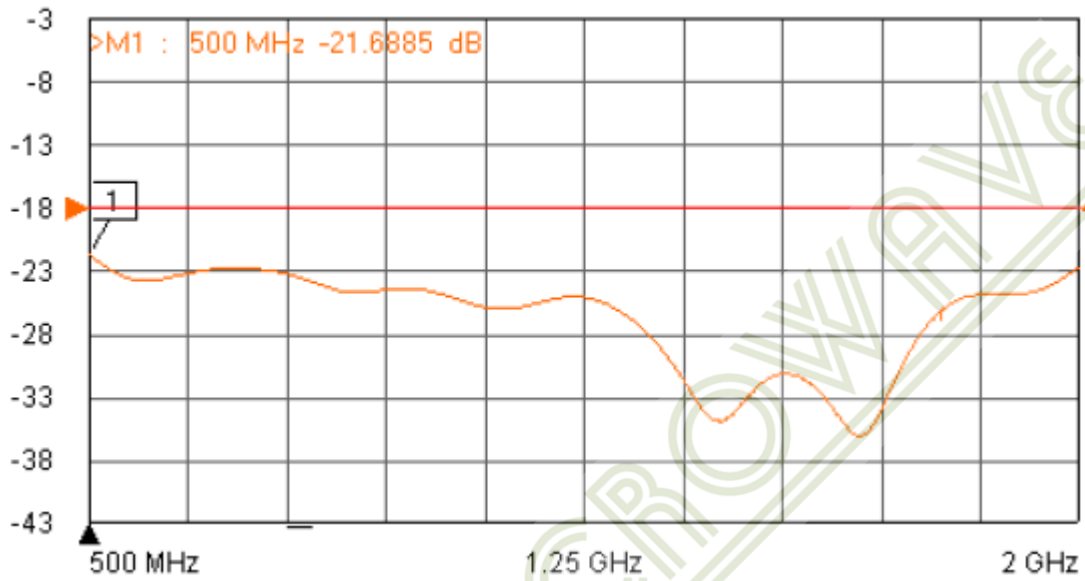
Return Loss Input



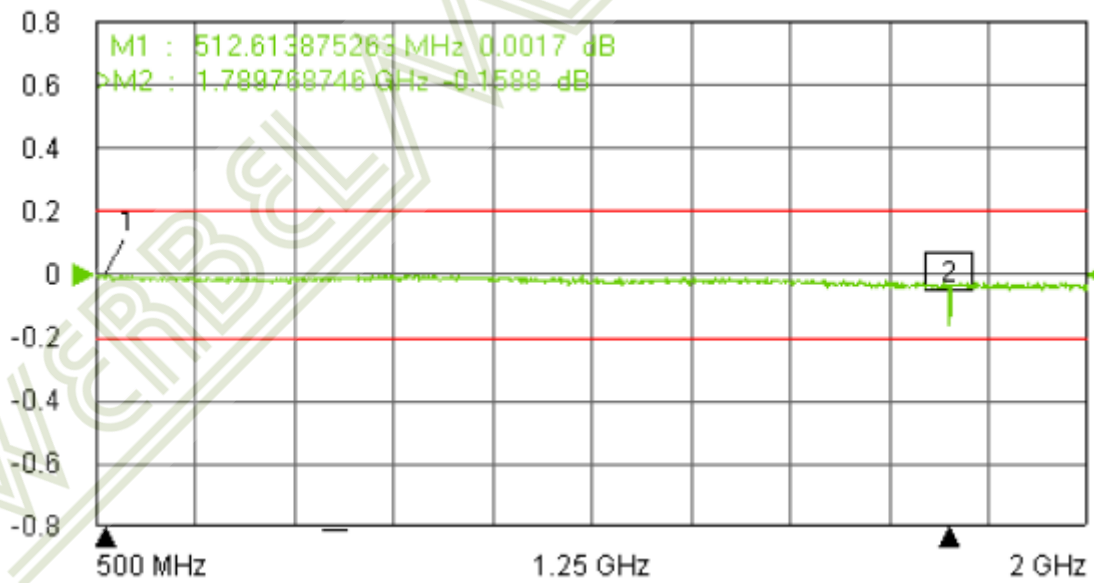
Return Loss Output



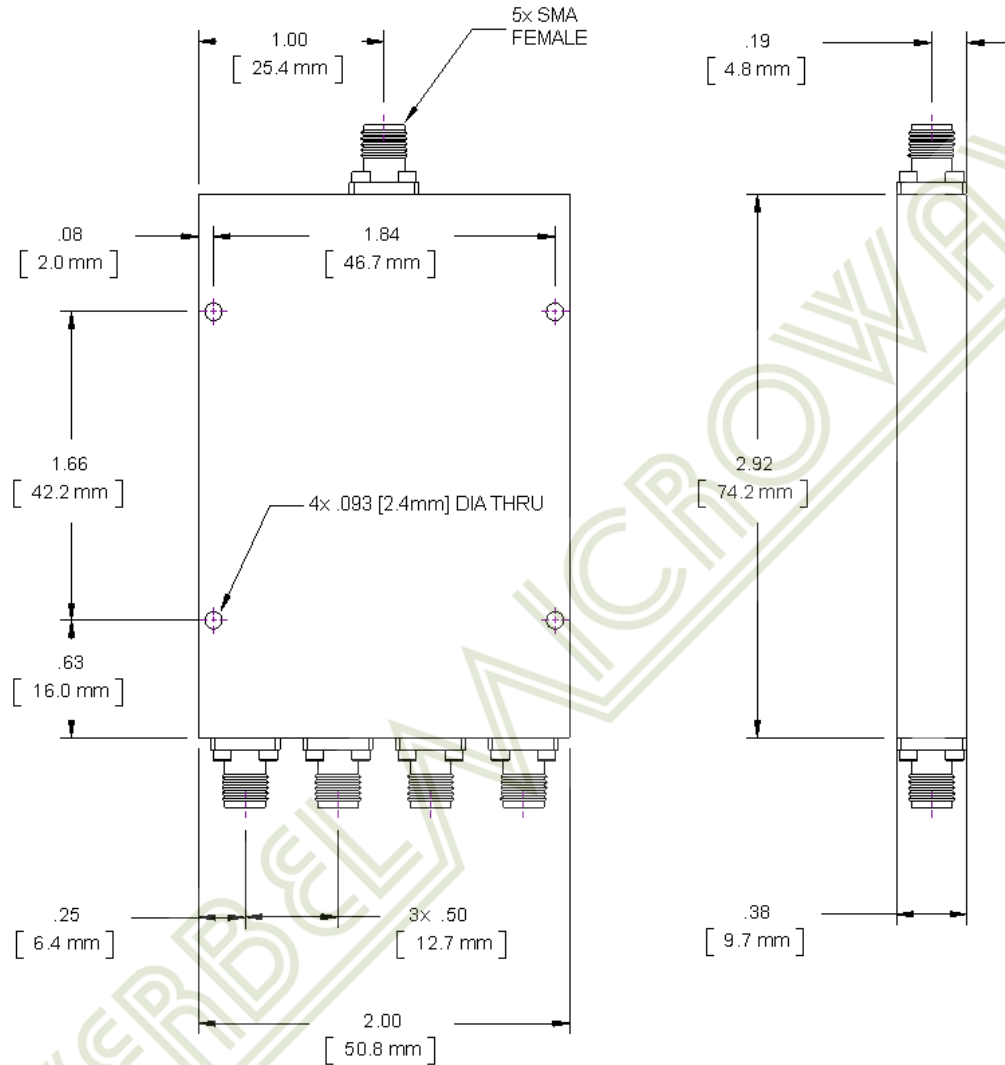
Isolation



Amplitude Balance



Outline Dimensions



Outline Drawing # OL-4025

UNLESS OTHERWISE SPECIFIED: Dimensions are in inches, [mm] shown for convenience.

Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$. Angles: $\pm 1^\circ$.

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or documentation of the part, in order to implement improvements. Werbel Microwave reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications are nominal. Werbel Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Werbel Microwave does not assume any liability arising out of the use of any part of documentation.