

SMA 6-way Power Divider from 500 MHz to 6 GHz

Power Divider Spec Sheet

D-6066

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-6006 is a true 6-way Wilkinson divider that operates from 500 MHz to 6 GHz and can handle up to 50 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		6	GHz
Impedance		50		Ohm
VSWR (common port)		1.52	2.0	:1
VSWR (split ports)		1.21	1.8	:1
Insertion Loss (above theoretical at highest frequency)		2.0	3.0	dB
Isolation (500-698 MHz)	13	15		dB
Isolation (699-6000 MHz)	18	25		dB
Amplitude Balance		0.8	1.5	dB
Phase Balance		4	15	Degrees
Power Handling as Splitter into 1.2:1 max load VSWR			50	Watts (CW)

Mechanical

Connector Interface	SMA-Female
Operating Temperature*	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	1.2 lb. (544 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only

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

Materials

RoHS Compliant

Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Clear Chem Film



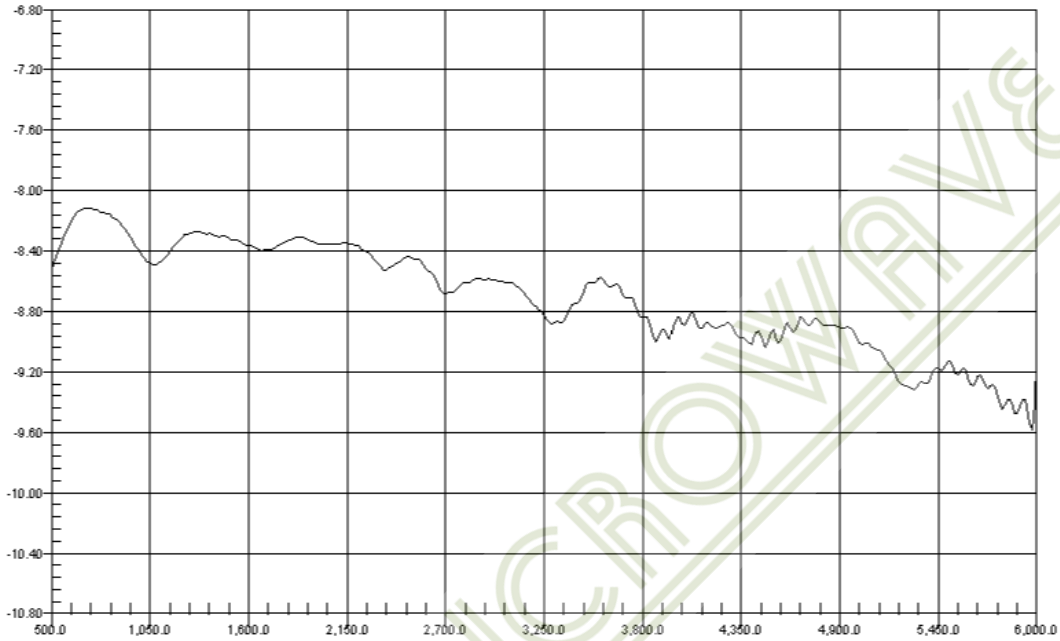
MADE IN USA

ISO 9001:2015

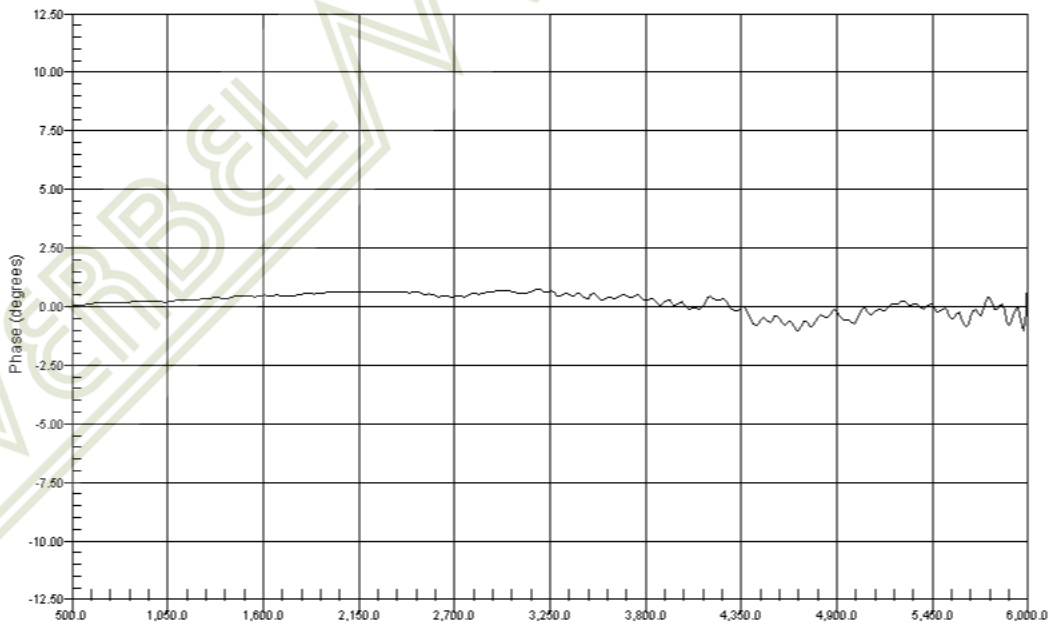
Certified Company

Typical Performance at +25 °C

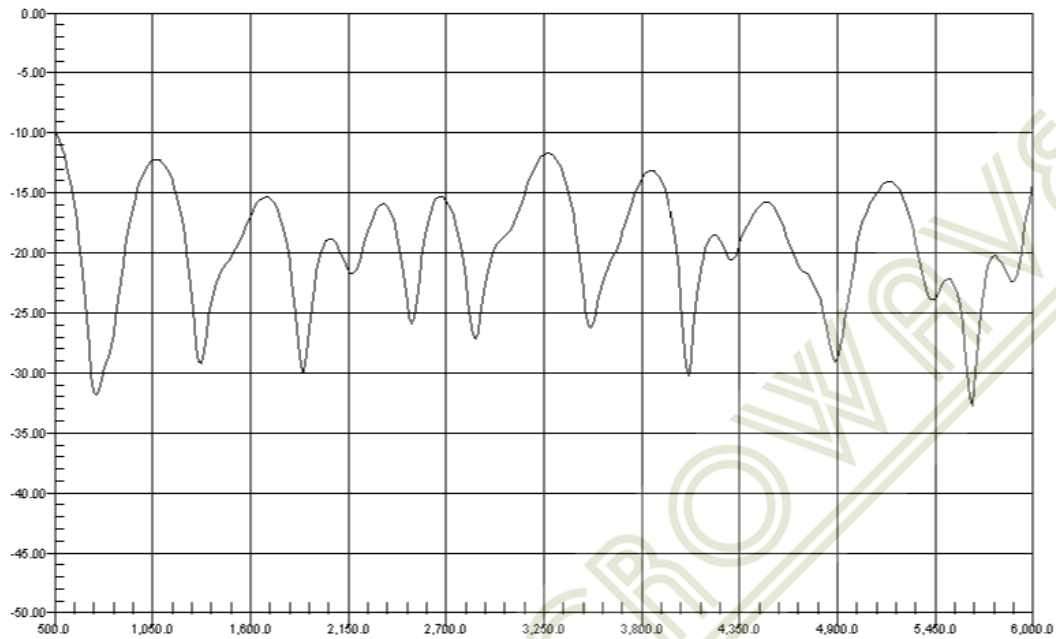
Insertion Loss



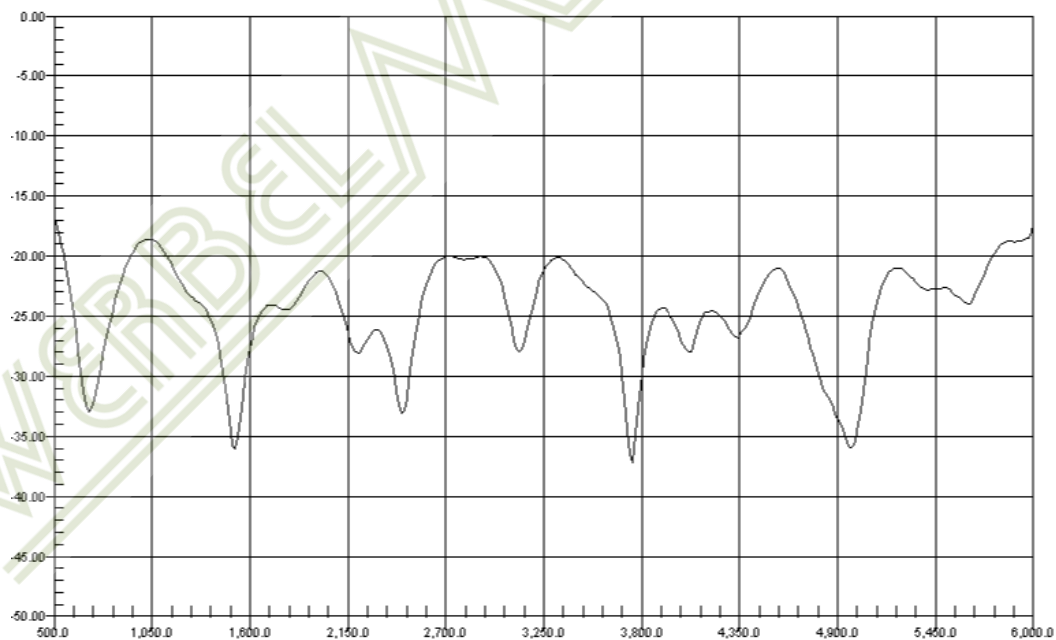
Phase



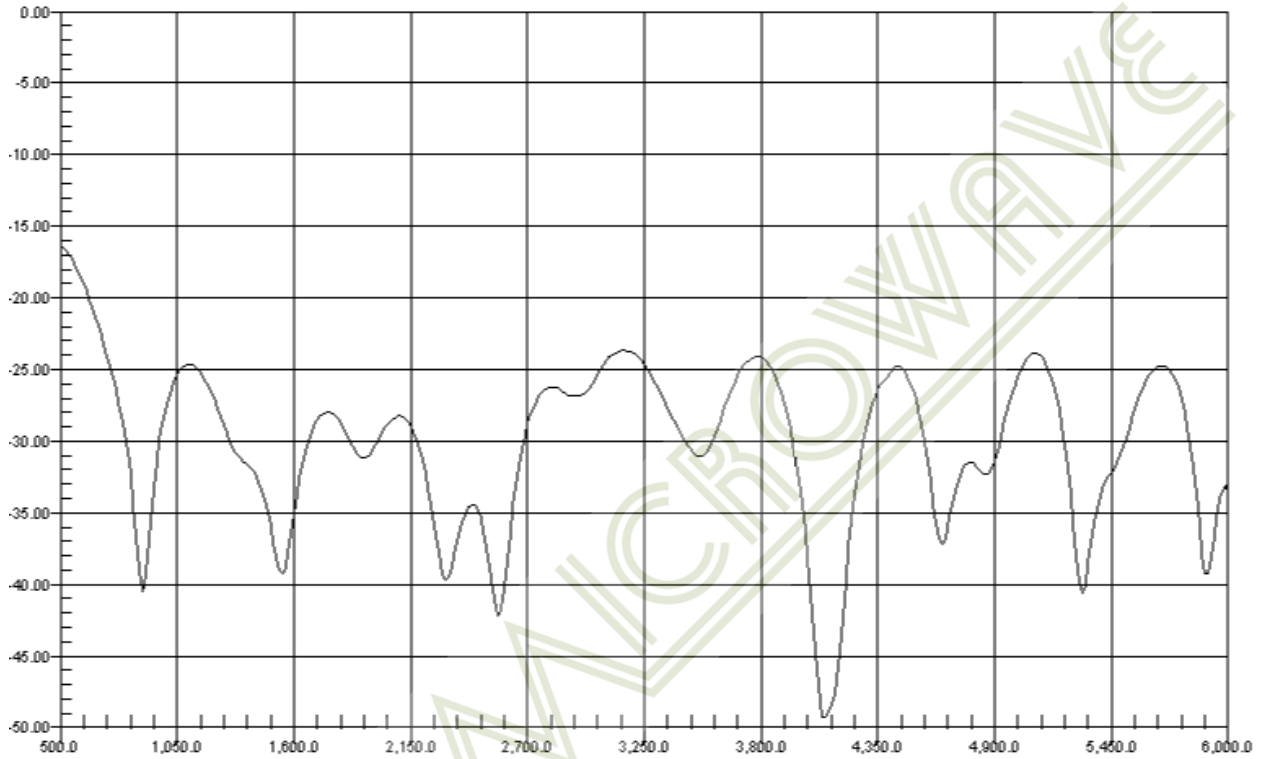
Return Loss Input



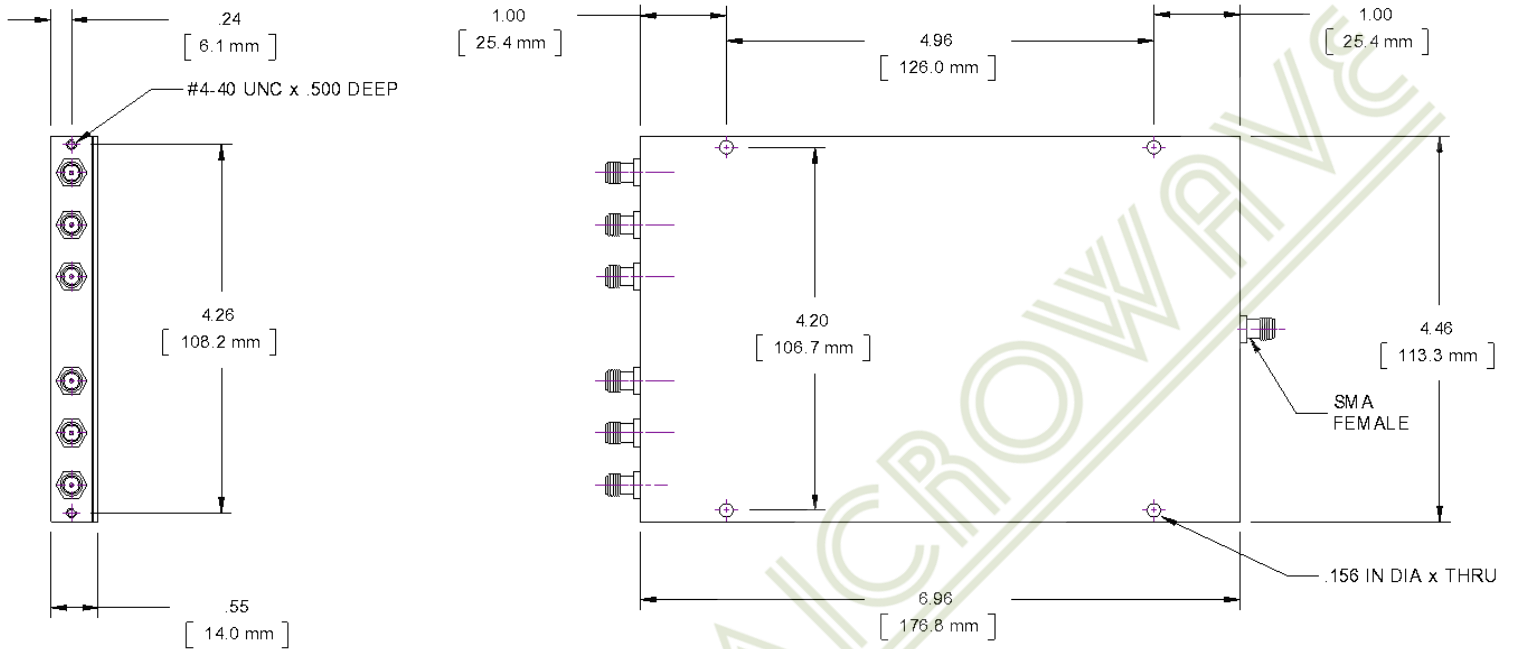
Return Loss Output



Isolation



Outline Dimensions



Outline Drawing # OL-6066

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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