

## Wideband Power Divider 4-way SMA Female from 500 MHz to 6 GHz

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

**D-4066**

#### Description

Model D-4066 from Werbel Microwave is a 4-way in-line power splitter covering the continuous bandwidth of 500 MHz to 6 GHz in an enclosure measuring 5.75 x 2.80 x 0.55 inches with versatile mounting options. The device is RoHS compliant.

This part has versatile mounting options. Thru holes allow for mounting to chassis on the broad side. Threaded holes on the connector edges allow for thru-panel mounting.



Specification	Min	Typ.	Max	Units
Frequency	0.5		6	GHz
Impedance		50		Ohm
VSWR (common port)		1.35	1.60	:1
VSWR (split ports)		1.20	1.45	:1
Insertion Loss (above theoretical at 3 GHz)		0.7	1.5	dB
Insertion Loss (above theoretical at 6 GHz)		1.0	2.1	dB
Isolation	17	23		dB
Amplitude Balance		0.2	0.6	dB
Phase Balance		4	10	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	6 oz (170 g)
Humidity	10-90% non-condensing
Environment	Indoor 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

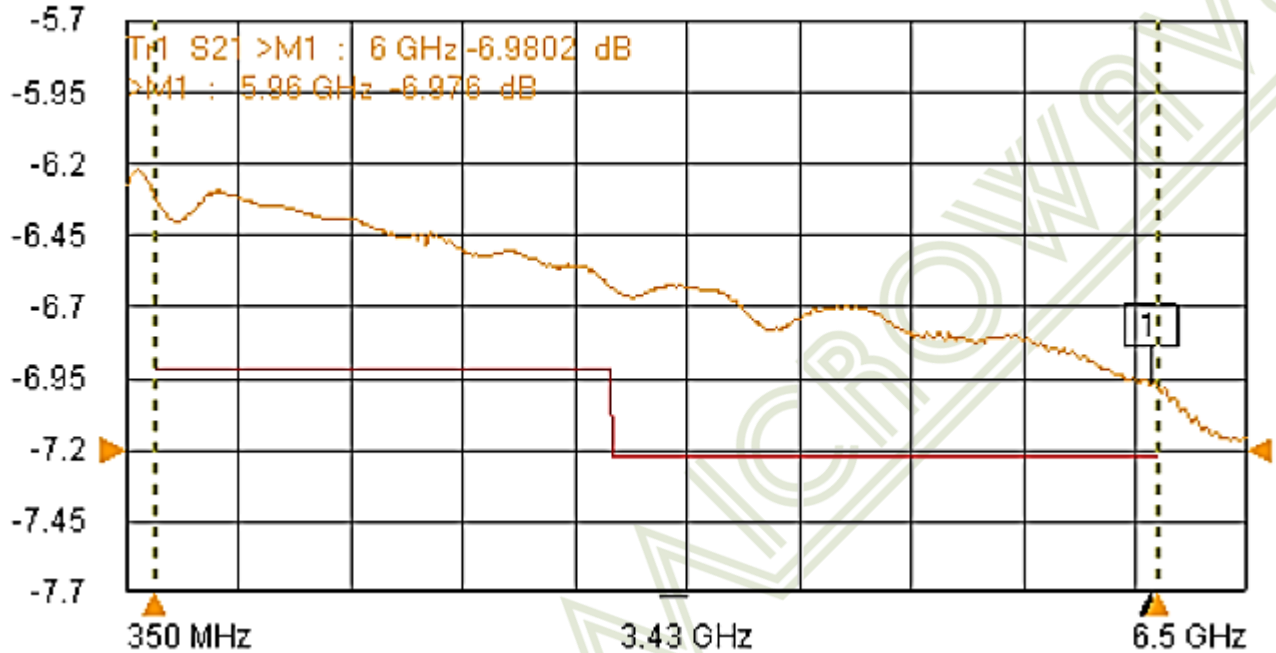
Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Clear Chem Film



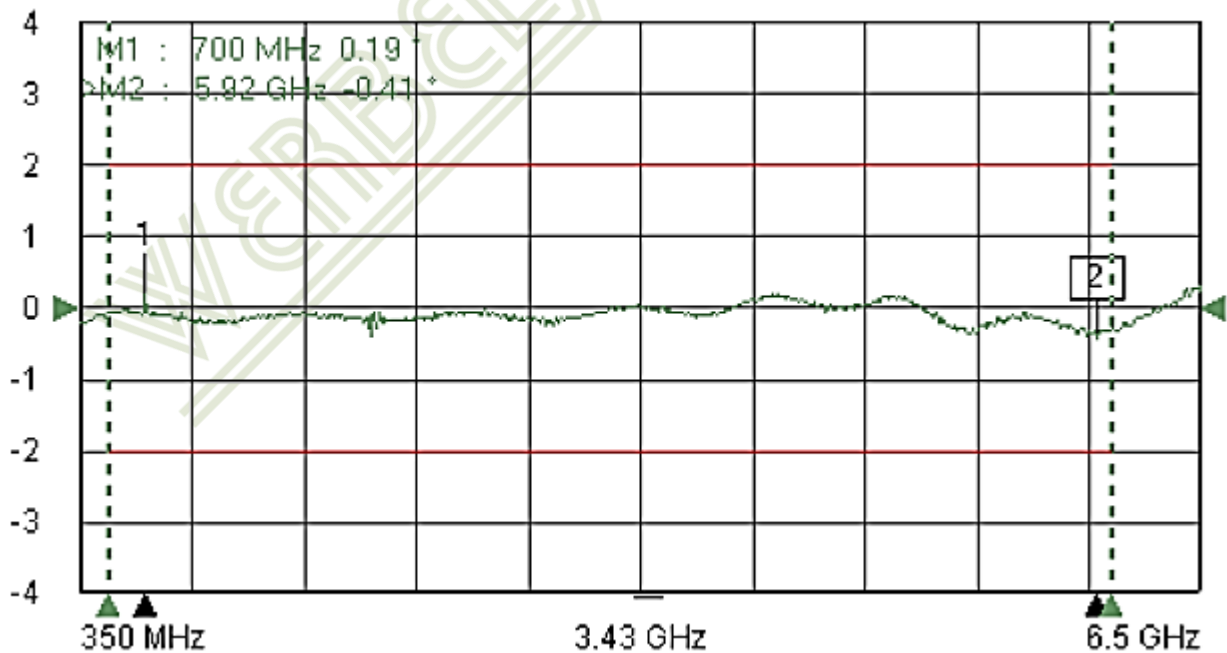
**ISO 9001:2015**  
Certified Company

## Typical Performance at +25 °C

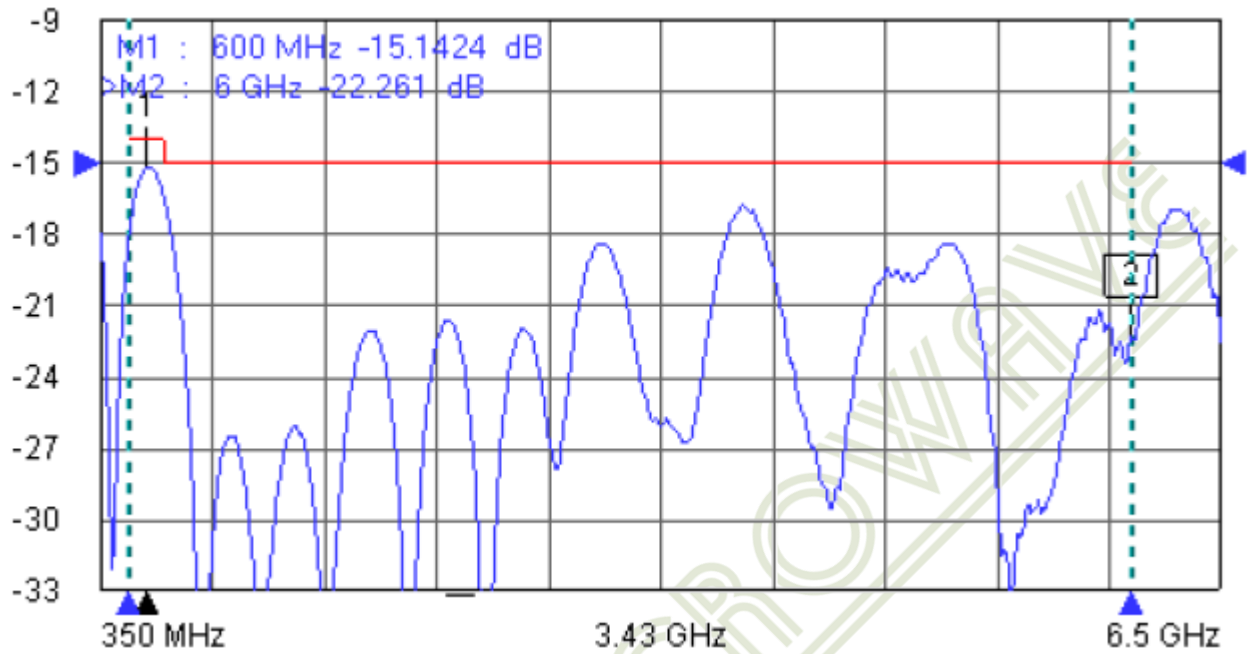
### Insertion Loss



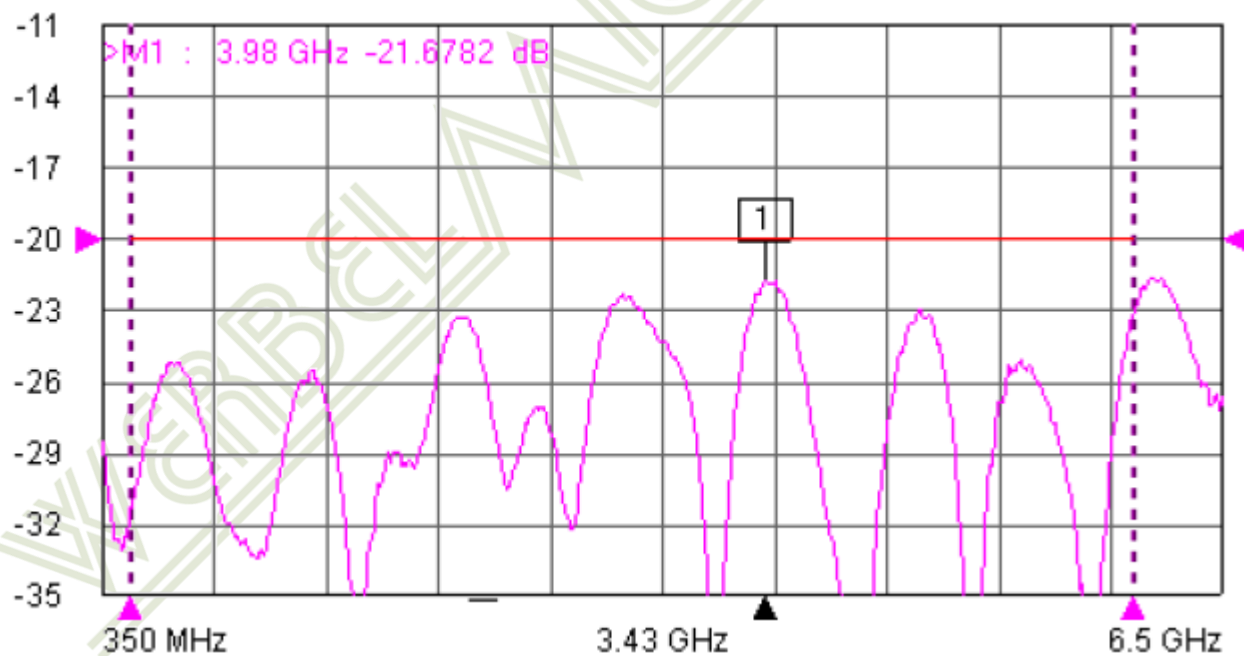
### Phase



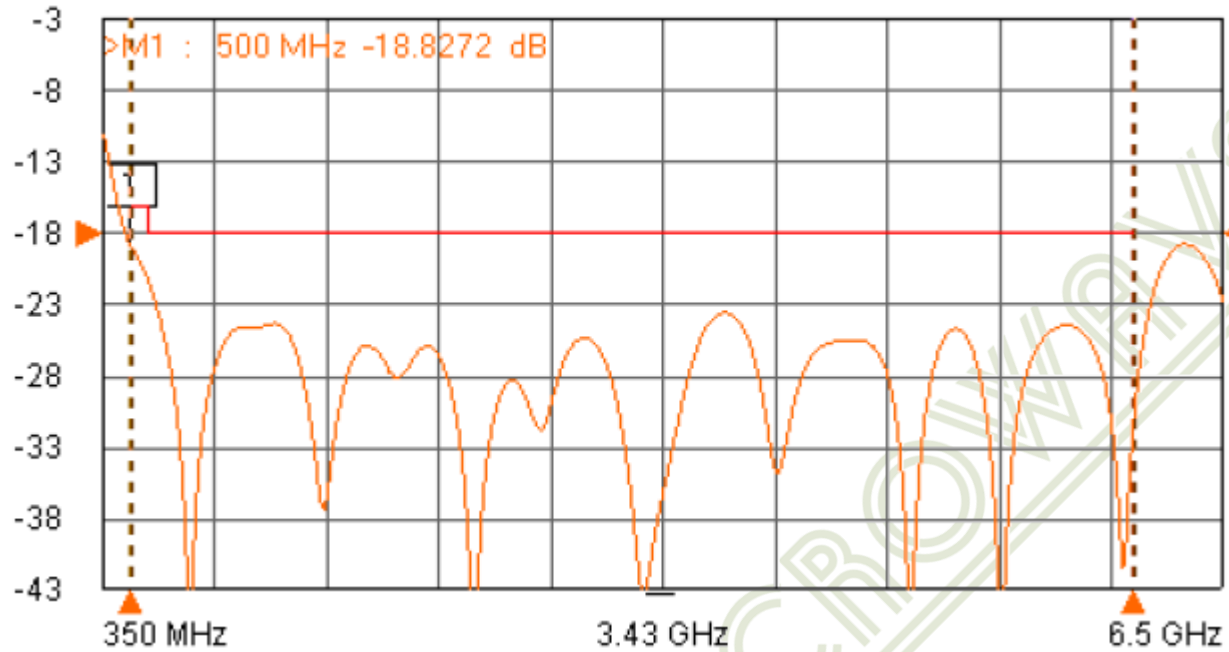
## Return Loss Input



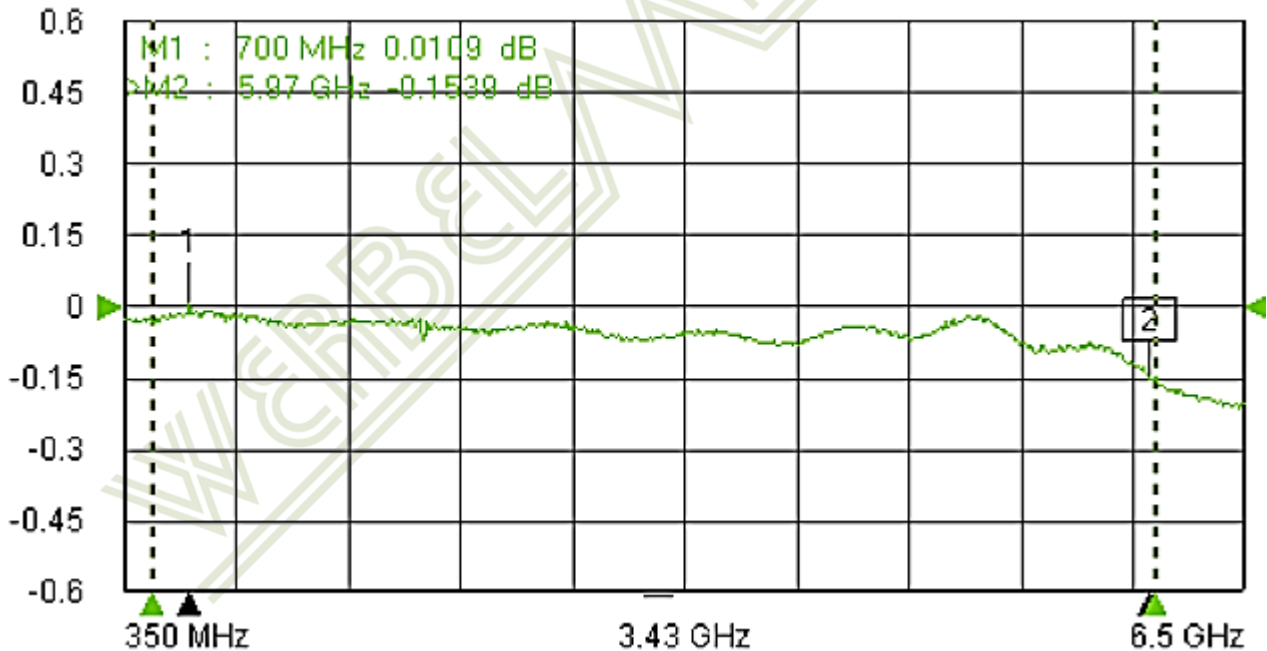
## Return Loss Output



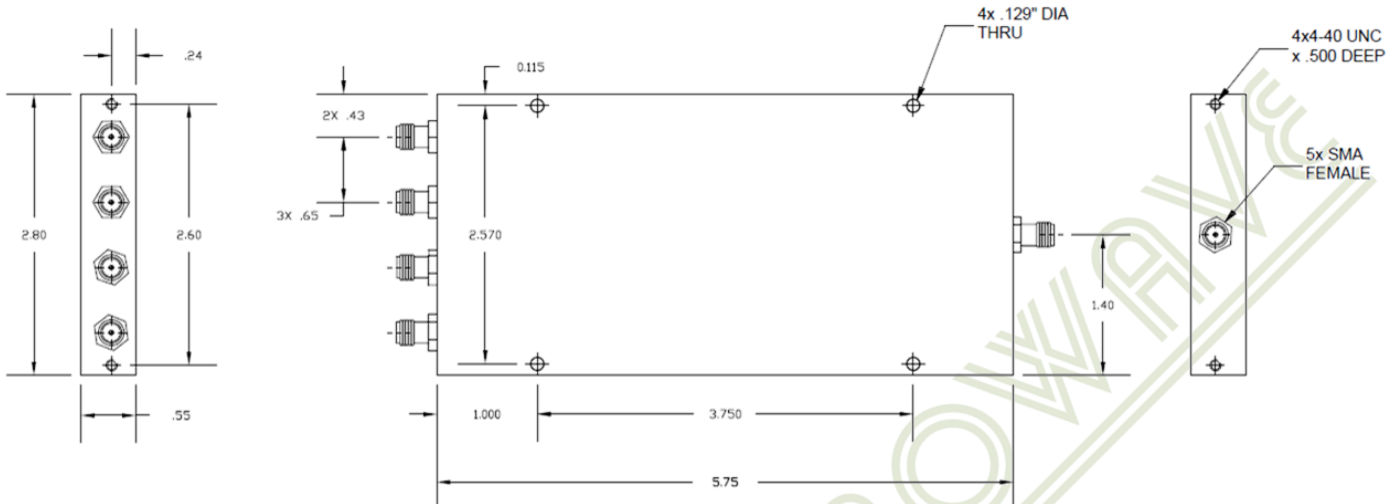
## Isolation



## Amplitude Balance



## Outline Dimensions



Outline drawing: OL-4066

Dimensions are in inches, [mm] shown for convenience.

Tolerances on 2-pl decimals:  $\pm .03$ . 3-pl decimals:  $\pm .015$ .

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