

## Wideband Power Divider 8-way SMA Female from 2 to 18 GHz

### 8-way SMA Power Divider from 2 GHz to 18 GHz

**D-8182**

#### Description

Model D-8182 from Werbel Microwave is a wideband 8-way in-line power splitter covering the continuous bandwidth of 2 to 18 GHz in an aluminum enclosure measuring 5.75 x 4.46 x 0.38 inches. Connectors are stainless steel. The device is RoHS compliant. A proven product since 2016. USA-made.



Specification	Min	Typ.	Max	Units
Frequency	2		18	GHz
Impedance		50		Ohm
VSWR (common port)		1.50	1.90	:1
VSWR (split ports)		1.20	1.50	:1
Insertion Loss (above theoretical at 18 GHz)		1.1	2.4	dB
Isolation	16	19		dB
Amplitude Balance		0.4	1.0	dB
Phase Balance		2	10	Degrees
Power Handling as Splitter into 1.2:1 max load VSWR			25	Watts (CW)

#### Mechanical

Connector Interface	SMA-Female
Operating Temperature*	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	15 oz (425 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only

#### Materials

##### RoHS Compliant

Enclosure	Aluminum
Connectors	Stainless Steel
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Gray Paint

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

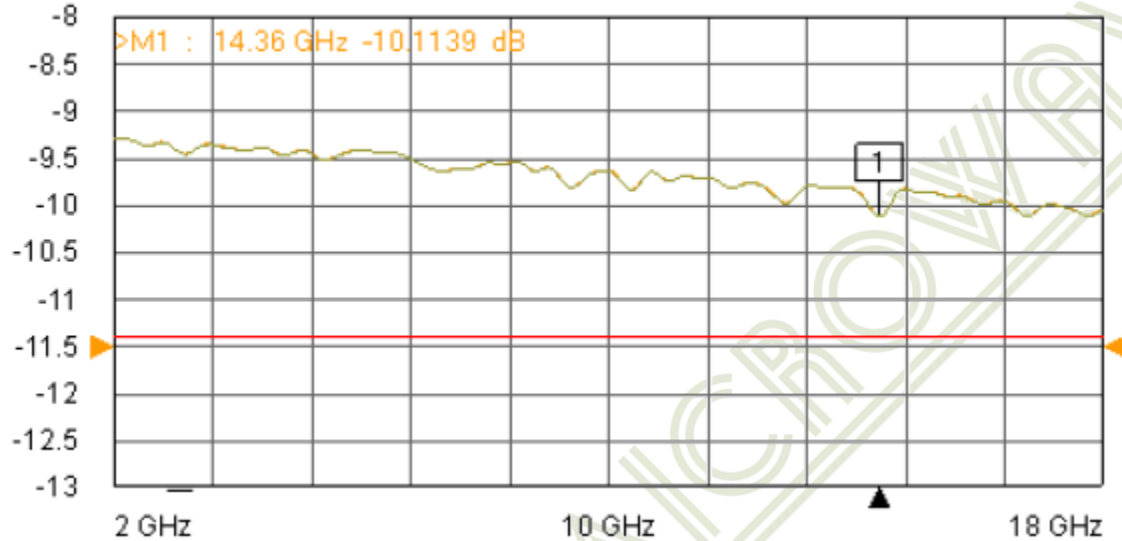


**MADE IN USA**

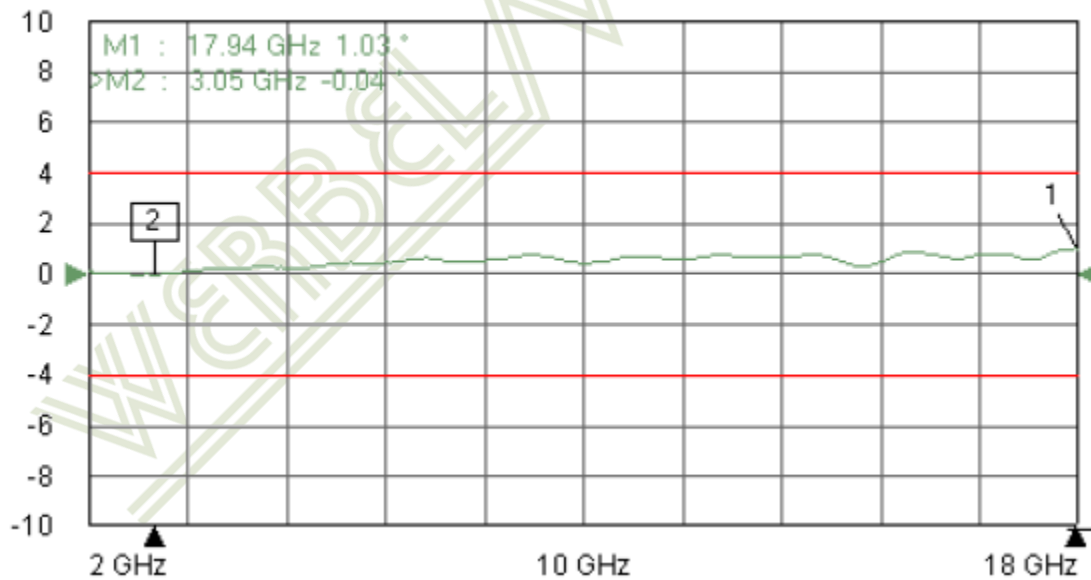
**ISO 9001:2015**  
Certified Company

## Typical Performance at +25 °C

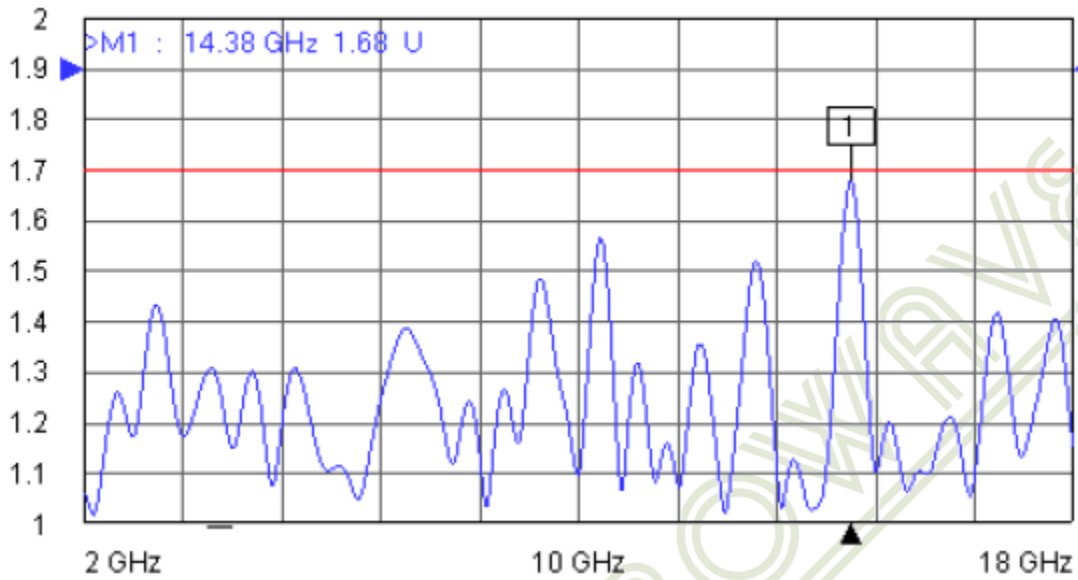
### Insertion Loss



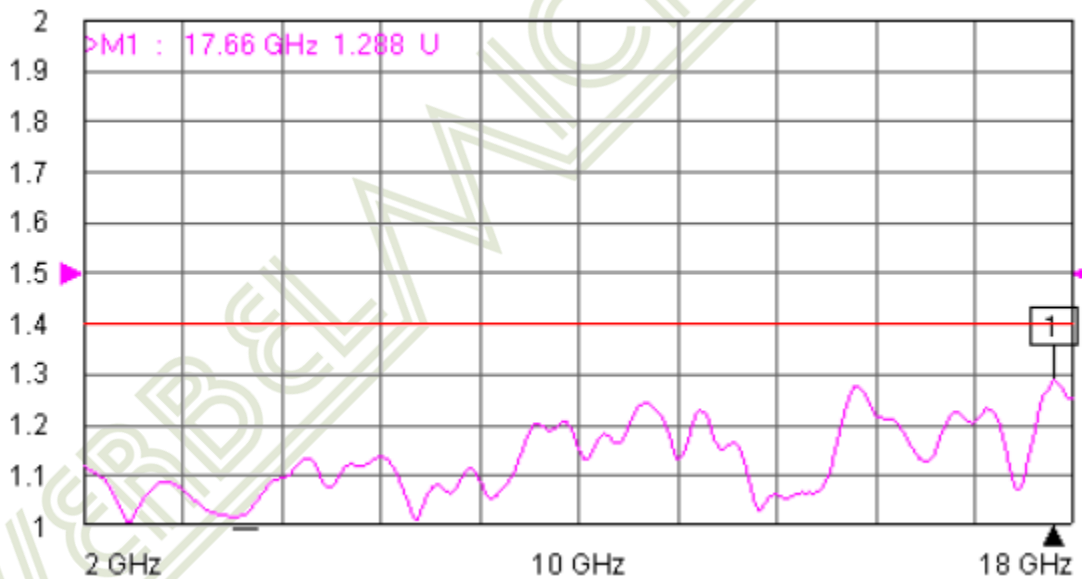
### Phase



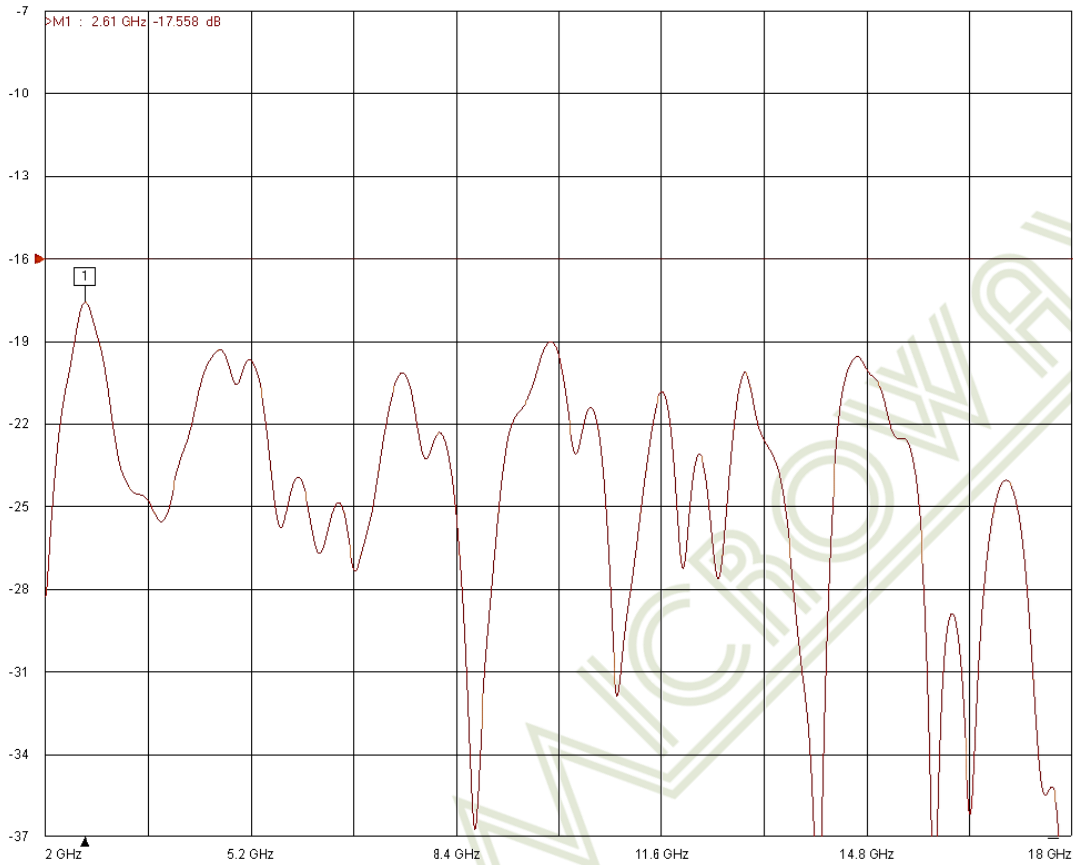
## Return Loss Input



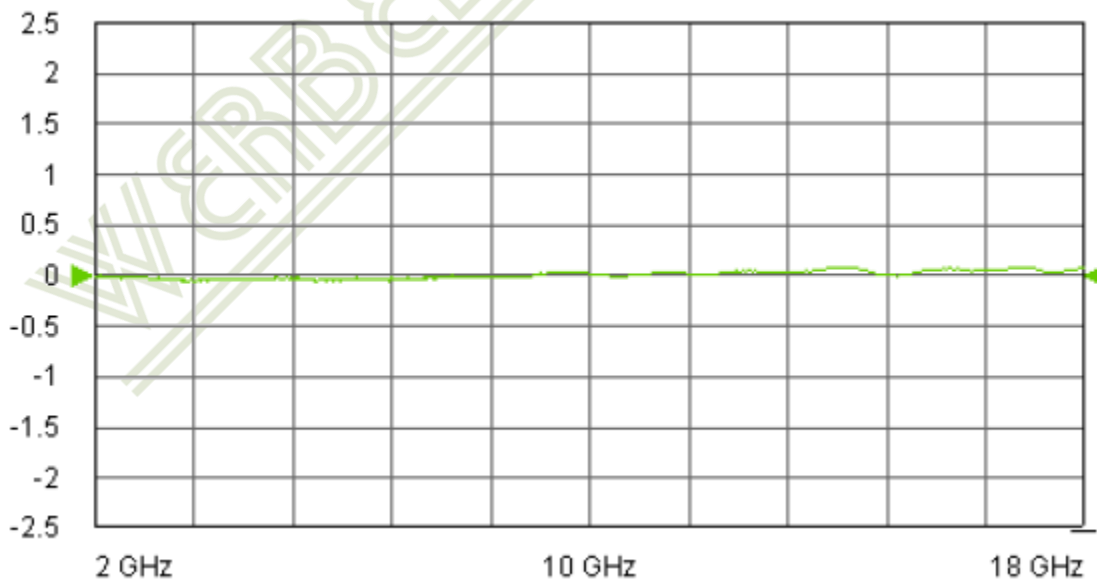
## Return Loss Output



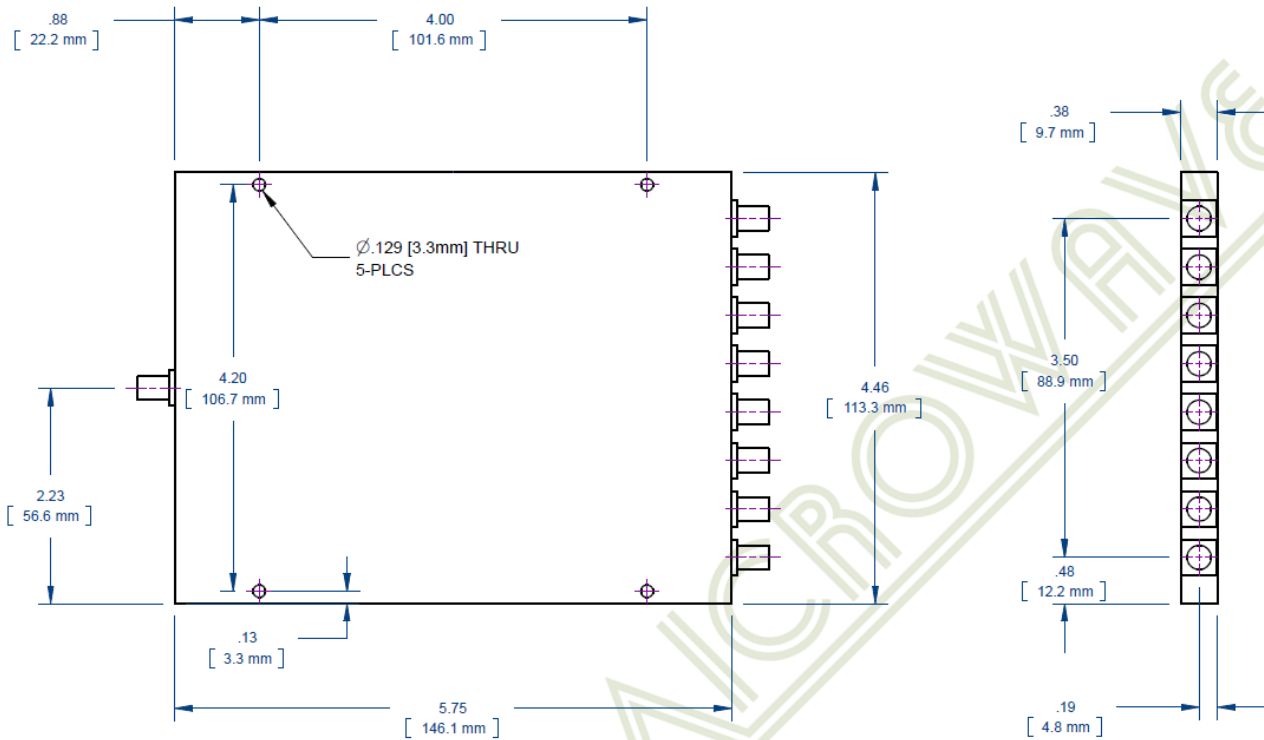
## Isolation



## Amplitude Balance



## Outline Dimensions



Outline drawing: OL-8182

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

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

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