

## Wideband Power Divider 4-way SMA Female from 2 to 18 GHz

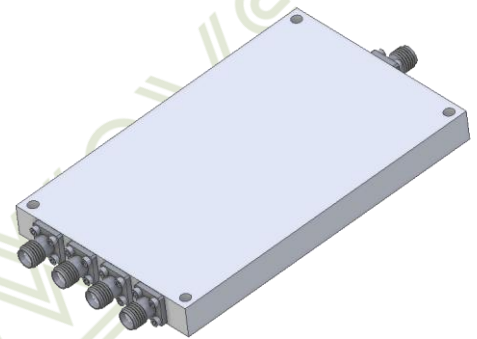
### 4-way SMA Power Divider from 2 GHz to 18 GHz

**D-4182**

#### Description

Model D-4182 from Werbel Microwave is a wideband 4-way in-line power splitter covering the continuous bandwidth of 2 to 18 GHz in an aluminum enclosure measuring 4.00 x 2.50 x 0.38 inches. The device is RoHS compliant.

A proven product since 2015. Excellent VSWR and insertion loss.



Specification	Min	Typ.	Max	Units
Frequency	2		18	GHz
Impedance		50		Ohm
VSWR (common port)		1.65	1.80	:1
VSWR (split ports)		1.35	1.50	:1
Insertion Loss (above theoretical at 18 GHz)		0.80	1.80	dB
Isolation	16	18		dB
Amplitude Balance		0.30	1.00	dB
Phase Balance		3	12	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	11 oz (312 g)
Humidity	10-90% non-condensing

#### Materials

##### RoHS Compliant

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

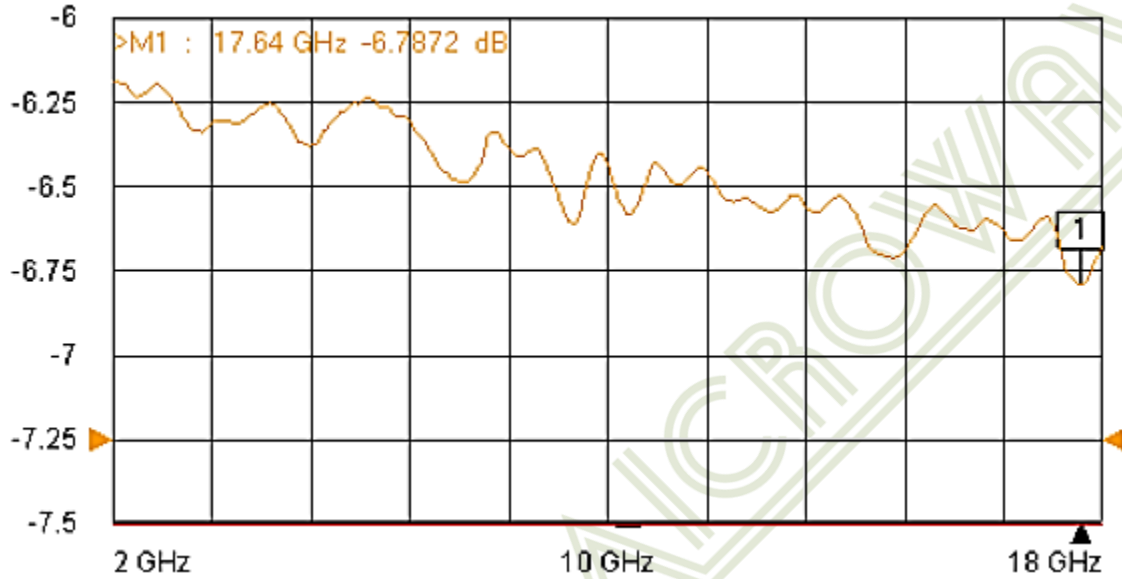
\* Design to meet based on materials. Production-tested at +25 °C. External heatsink and convection cooling recommended to maintain body temperature below +50 °C.



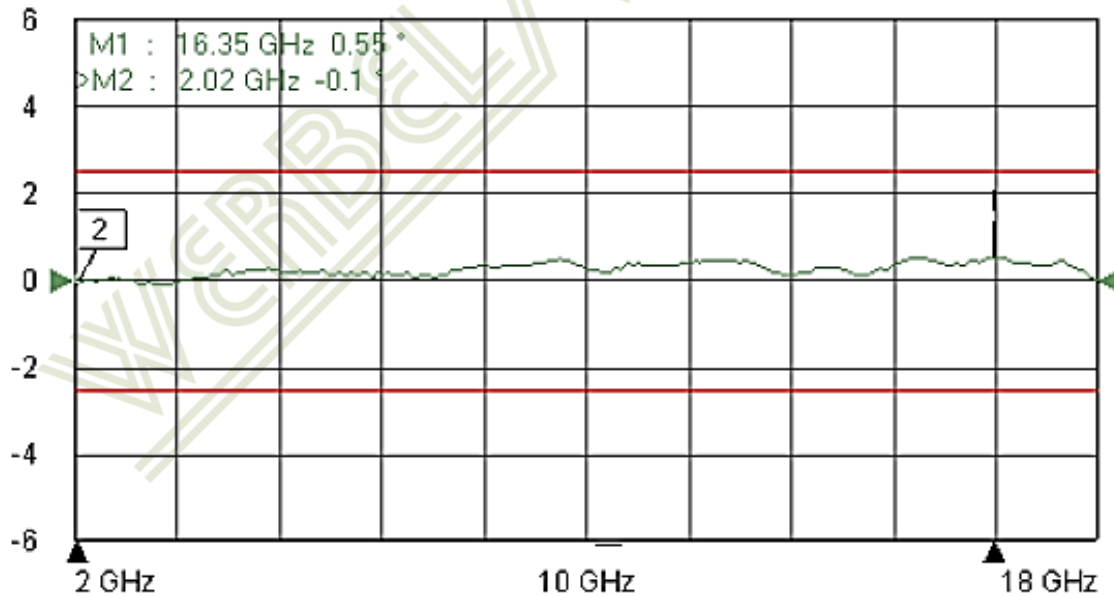
**ISO 9001:2015**  
Certified Company

## Typical Performance at +25 °C

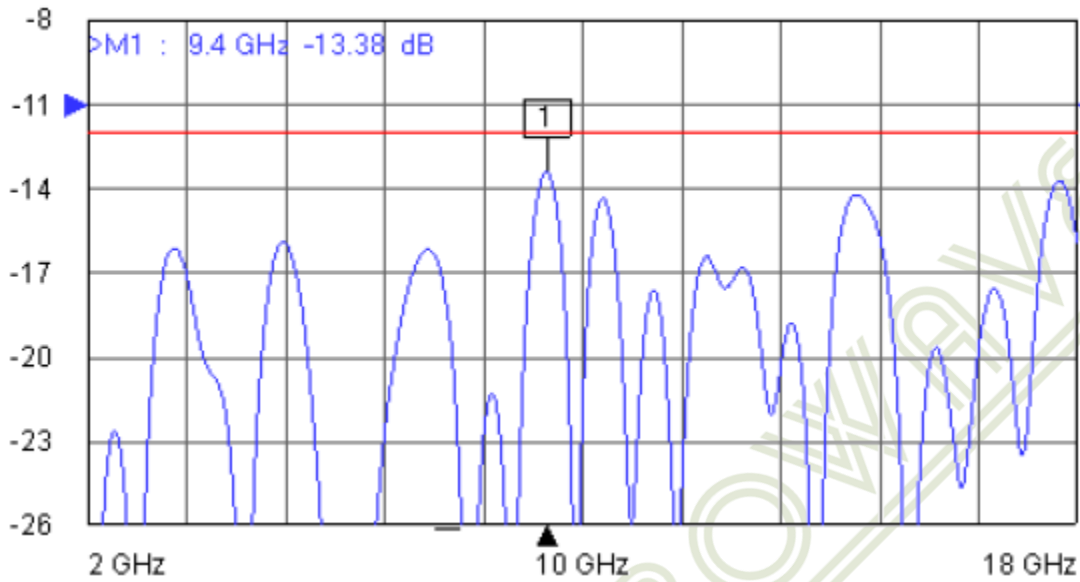
### Insertion Loss



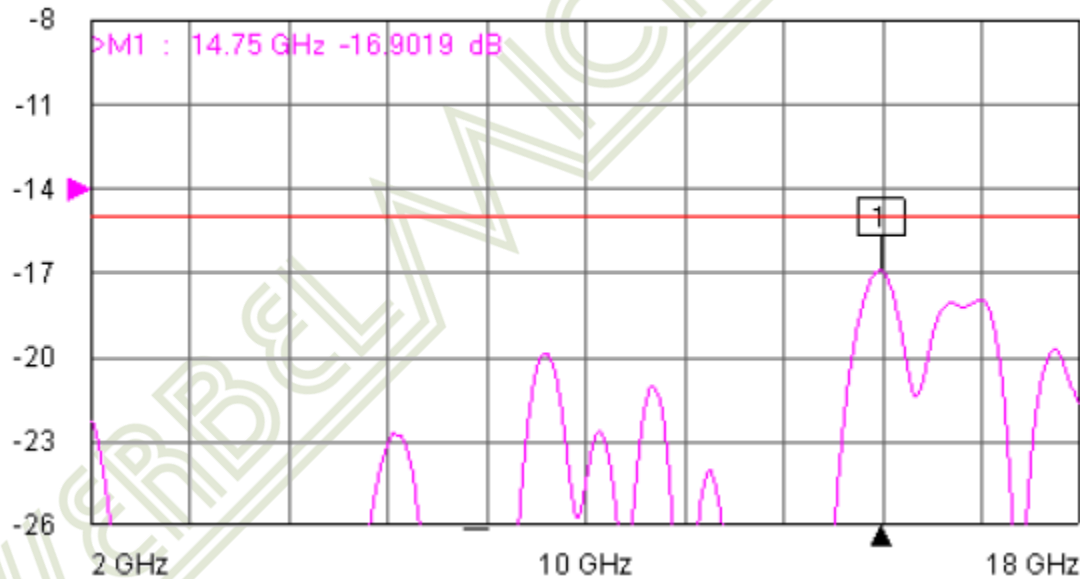
### Phase



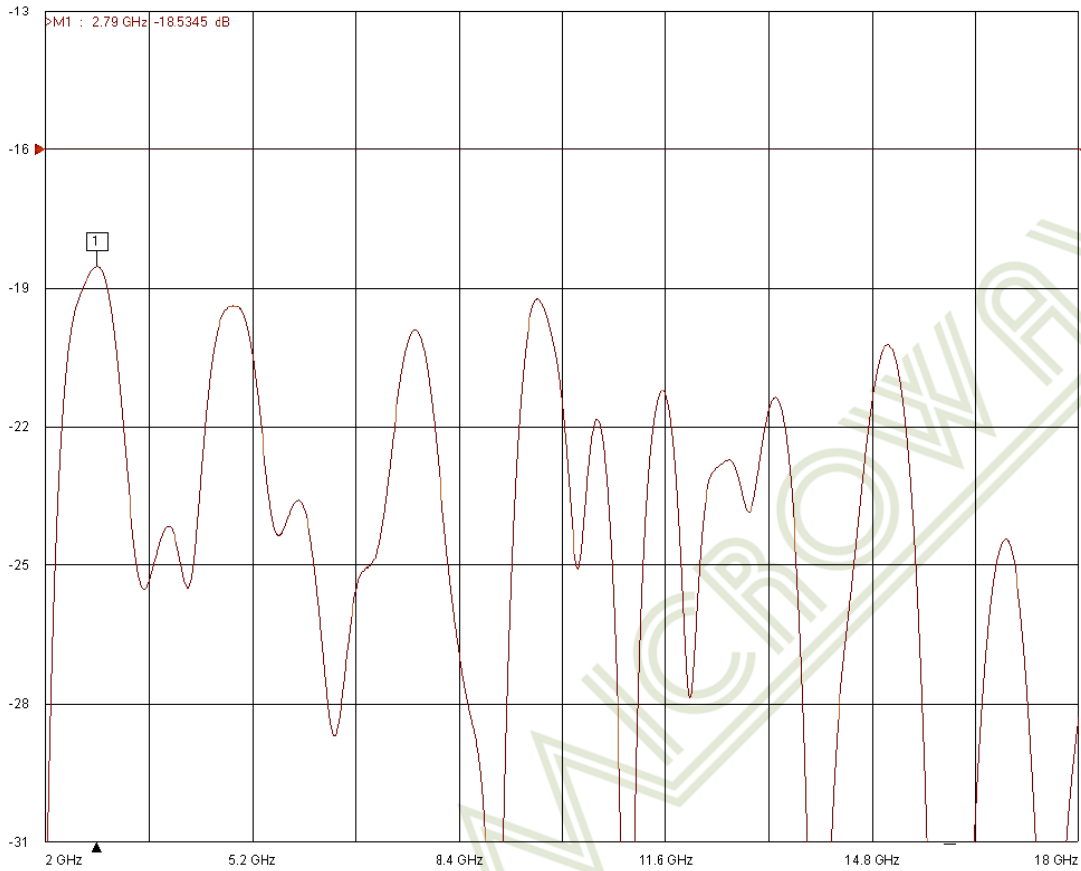
## Return Loss Input



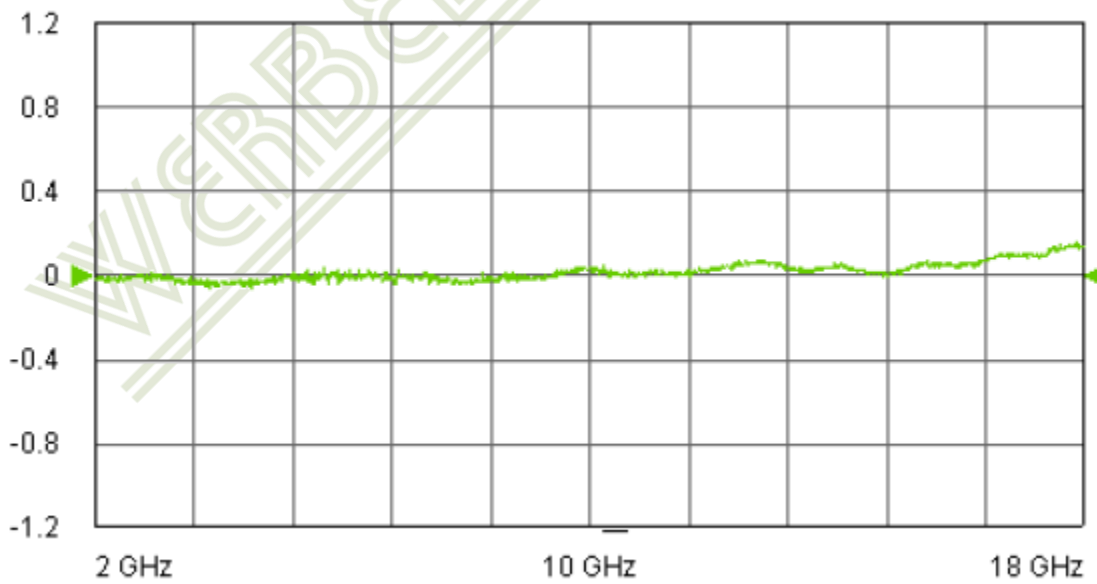
## Return Loss Output



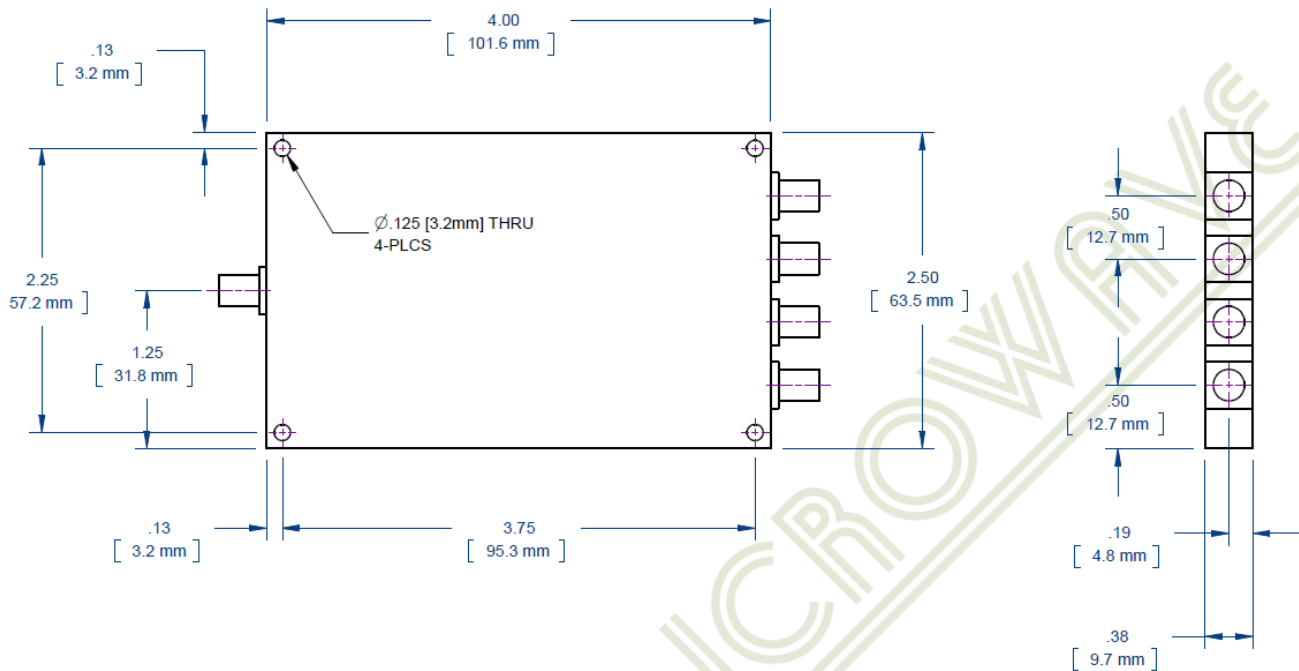
## Isolation



## Amplitude Balance



## Outline Dimensions



Outline drawing: OL-4182

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

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

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