

Wideband Power Divider 3-way SMA Female from 2 to 18 GHz

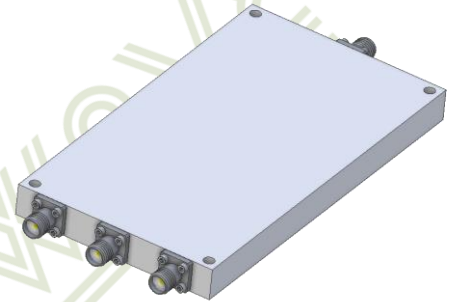
3-way SMA Power Divider from 2 GHz to 18 GHz

D-3182

Description

Model D-3182 from Werbel Microwave is a wideband 3-way in-line power splitter covering the continuous bandwidth of 2 to 18 GHz in a compact enclosure measuring 2.25 x 1.00 x 0.38 inches. The device is RoHS compliant.

A proven product since 2016. This is a “true” three-way split; not an internally-terminated 4-way, with excellent insertion loss and amplitude balance.



Specification	Min	Typ.	Max	Units
Frequency	2		18	GHz
Impedance		50		Ohm
VSWR (common port)		1.60	1.90	:1
VSWR (split ports)		1.40	1.80	:1
Insertion Loss (above theoretical at 18 GHz)		0.8	1.3	dB
Isolation	15	22		dB
Amplitude Balance		0.3	1.0	dB
Phase Balance		3	12	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	7 oz (200 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.

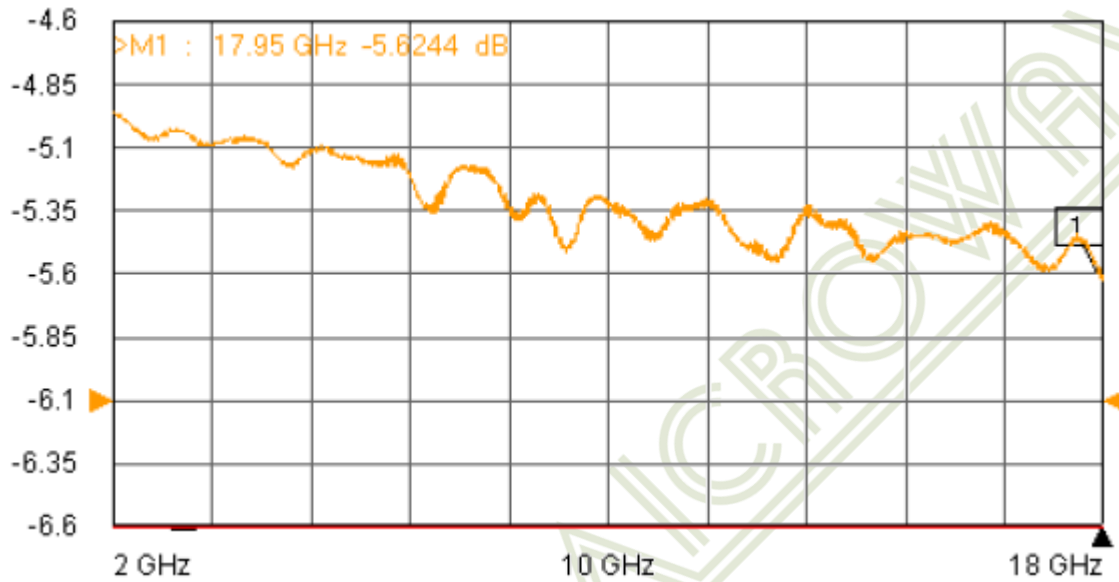


ISO 9001:2015

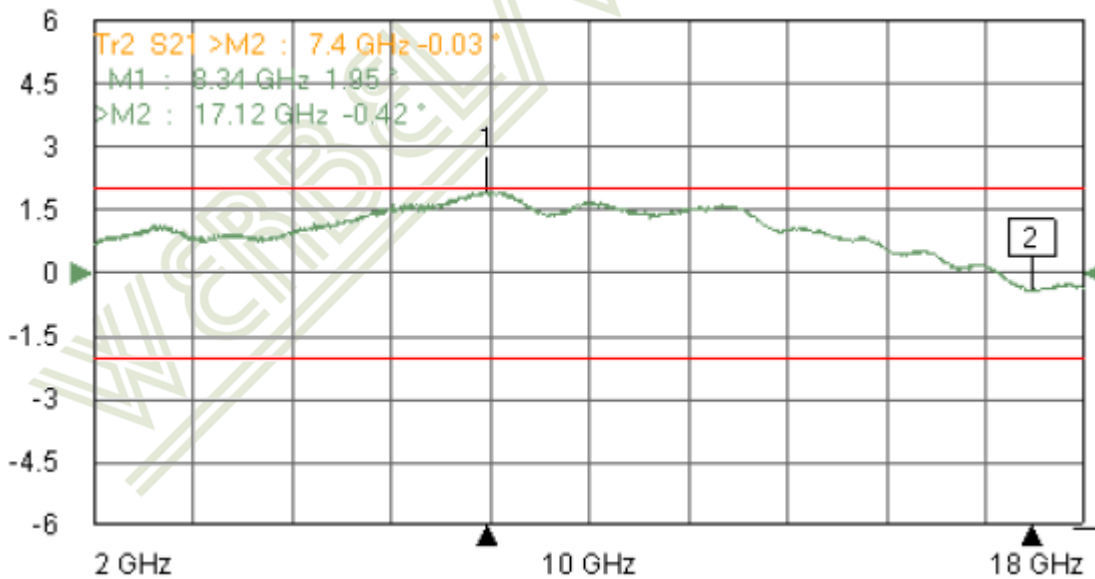
Certified Company

Typical Performance at +25 °C

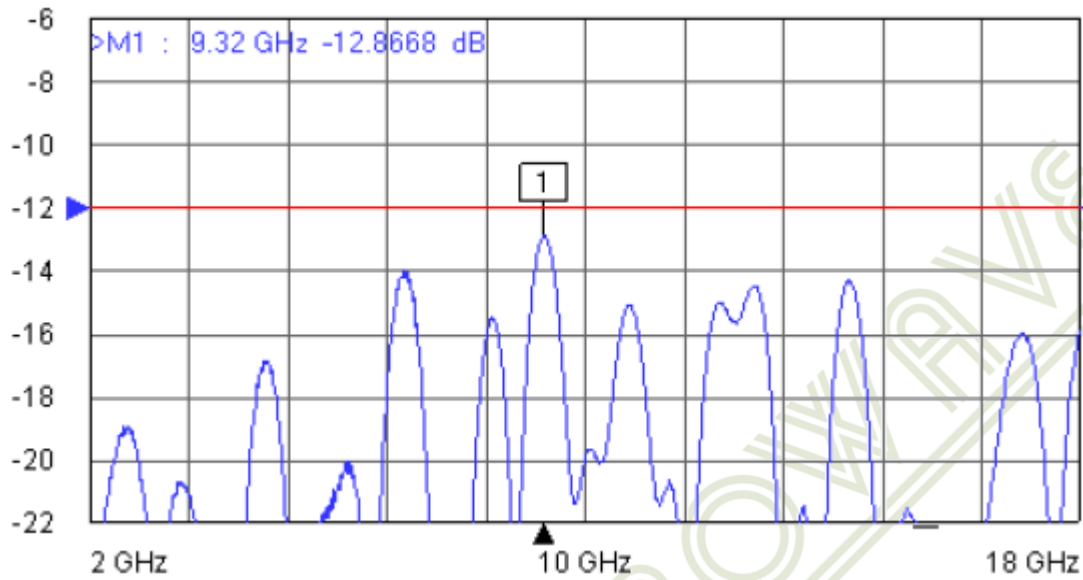
Insertion Loss



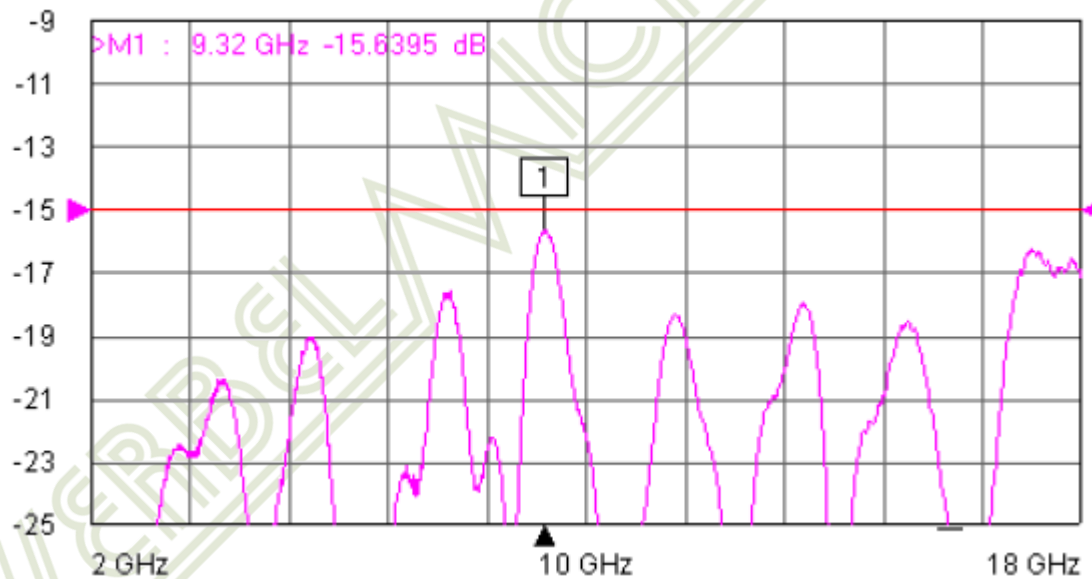
Phase



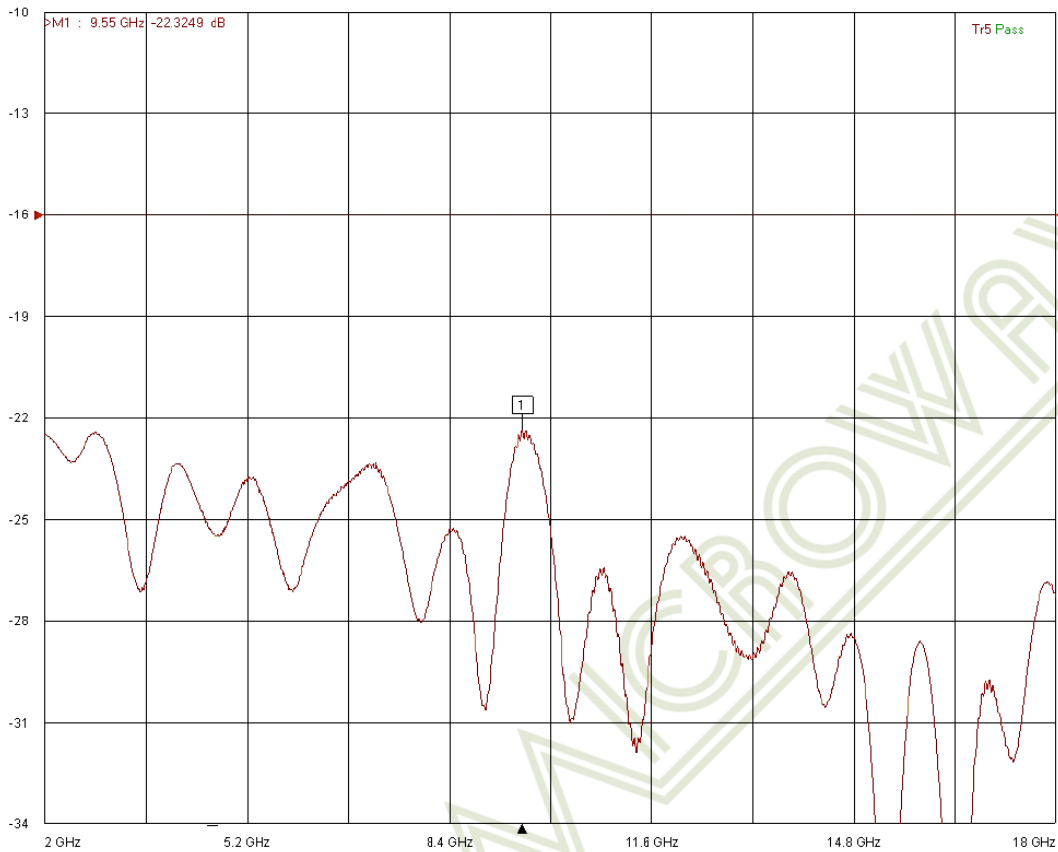
Return Loss Input



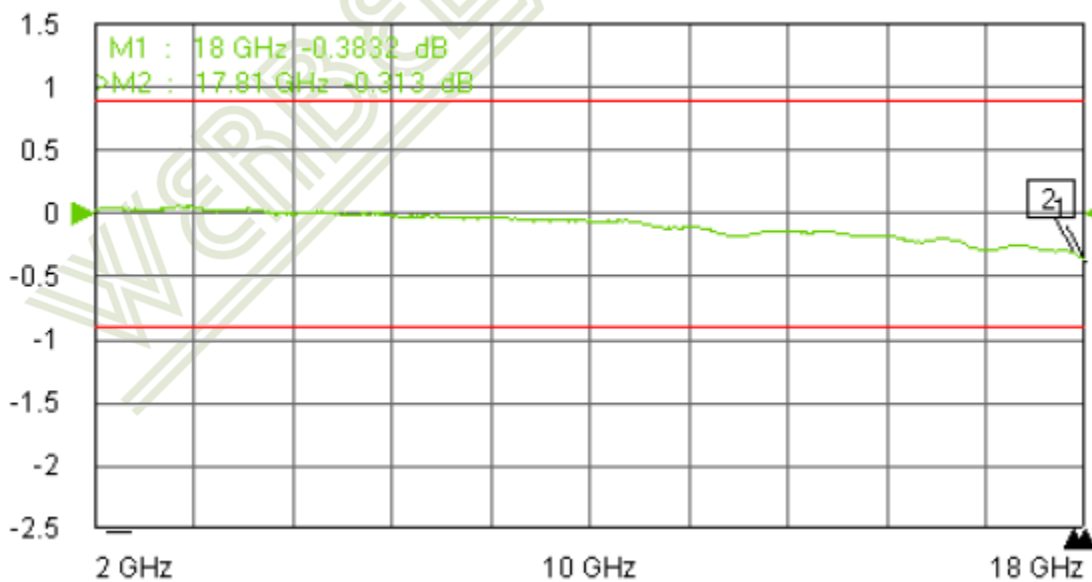
Return Loss Output



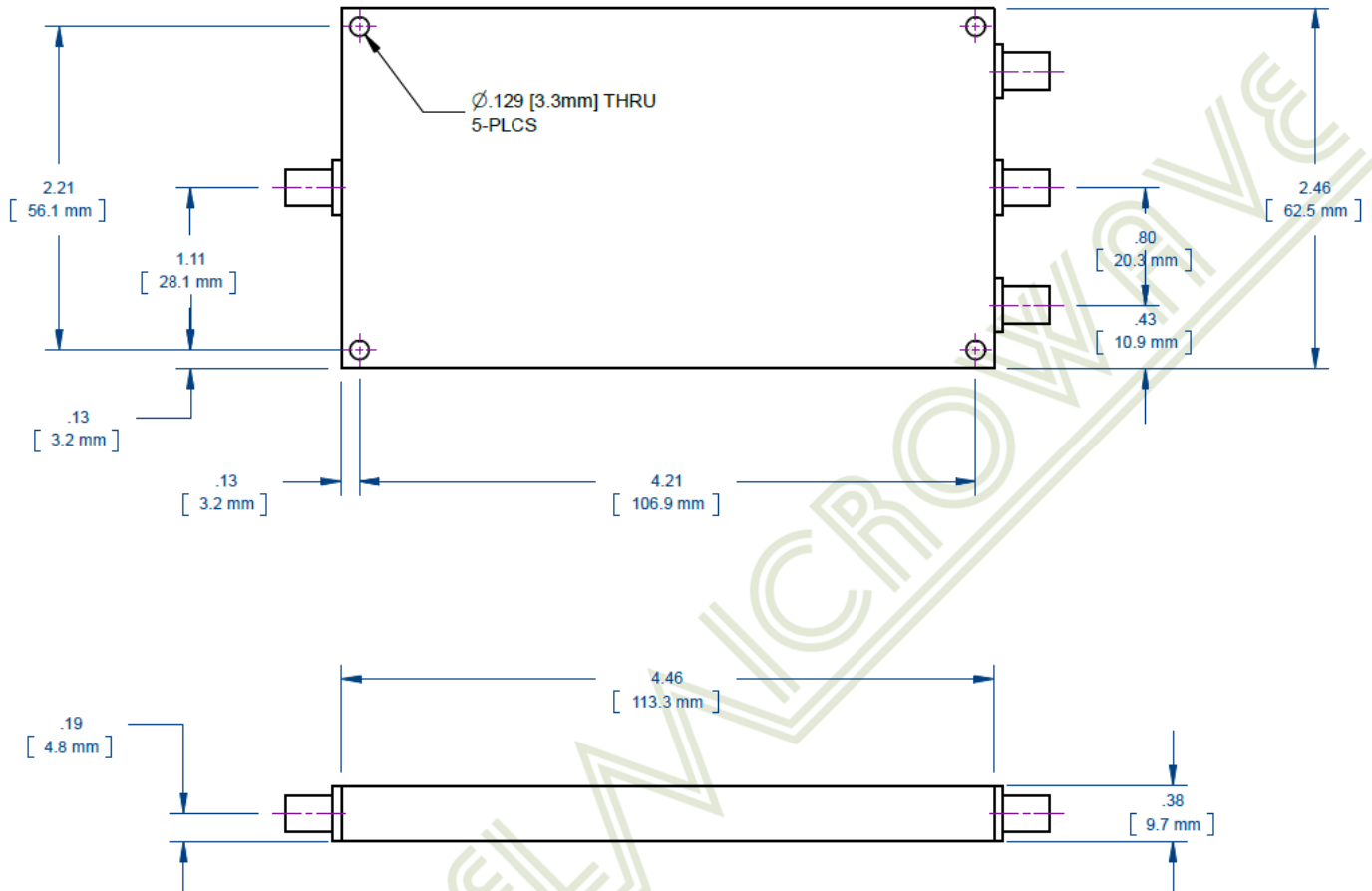
Isolation



Amplitude Balance



Outline Dimensions



Outline drawing: OL-3182

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

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

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