

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

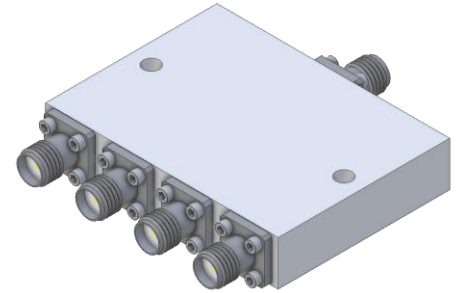
4-way SMA Power Divider from 4 GHz to 18 GHz

D-4184

Description

Model D-4184 from Werbel Microwave is a 4-way in-line power splitter covering the continuous bandwidth of 4 to 18 GHz in a compact enclosure measuring 1.98 x 1.46 x 0.38 inches. The device is RoHS compliant.

A proven product since 2016, with several thousand units shipped to date.



Specification	Min	Typ.	Max	Units
Frequency	4		18	GHz
Impedance		50		Ohm
VSWR (common port)		1.60	1.80	:1
VSWR (split ports)		1.40	1.50	:1
Insertion Loss (above theoretical at 18 GHz)		0.9	1.3	dB
Isolation	16	21		dB
Amplitude Balance		0.5	0.9	dB
Phase Balance		6	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	2.2 oz (62 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

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

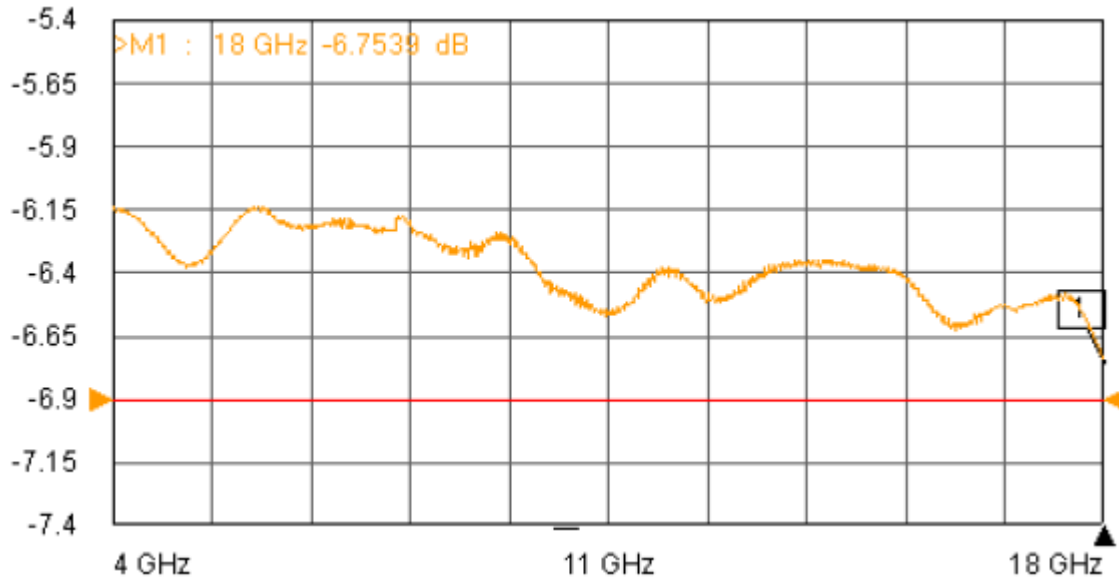


MADE IN USA

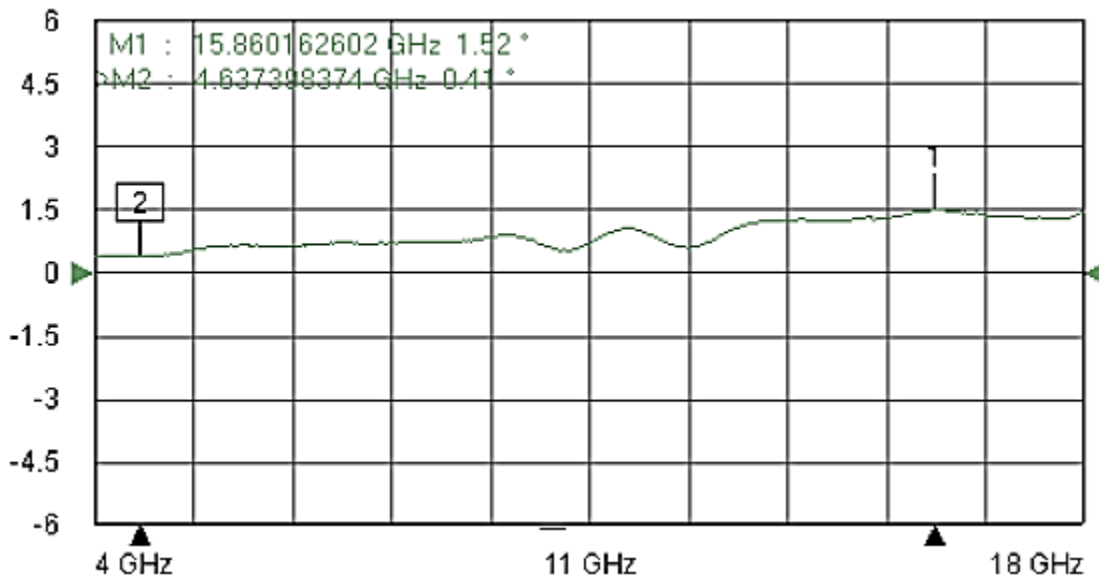
ISO 9001:2015
Certified Company

Typical Performance at +25 °C

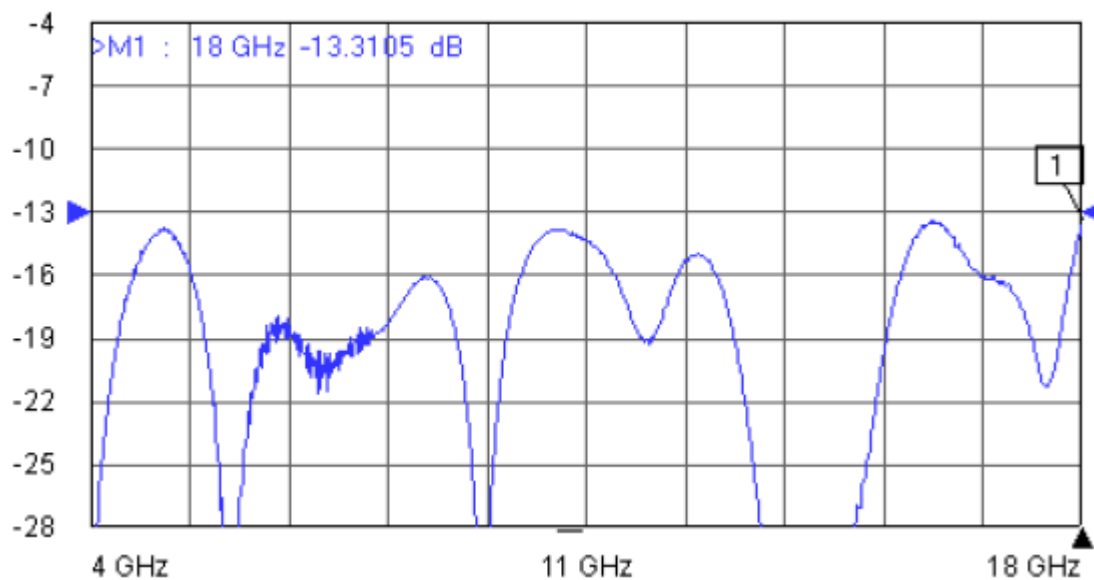
Insertion Loss



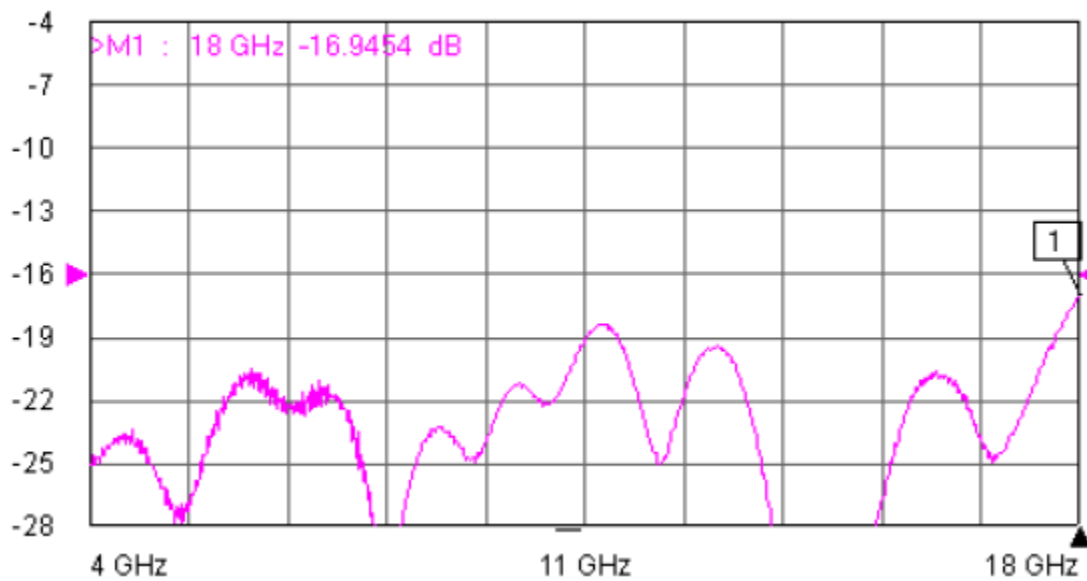
Phase



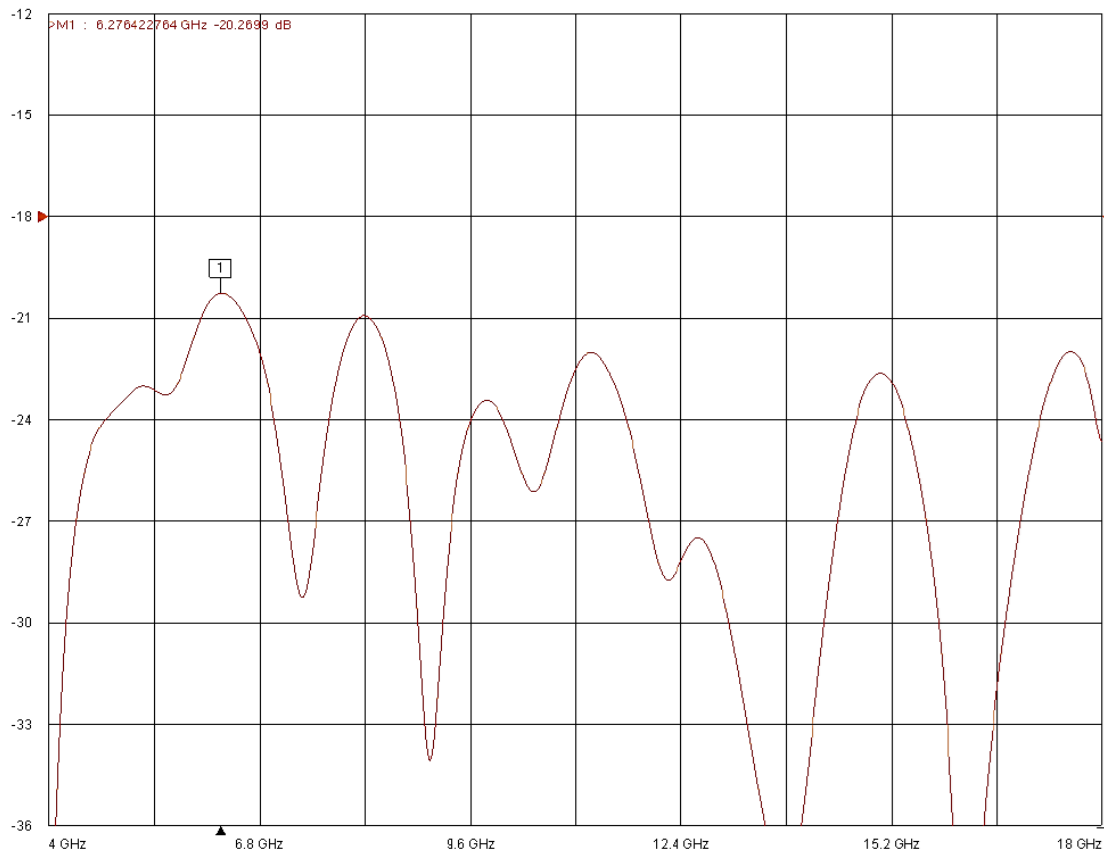
Return Loss Input



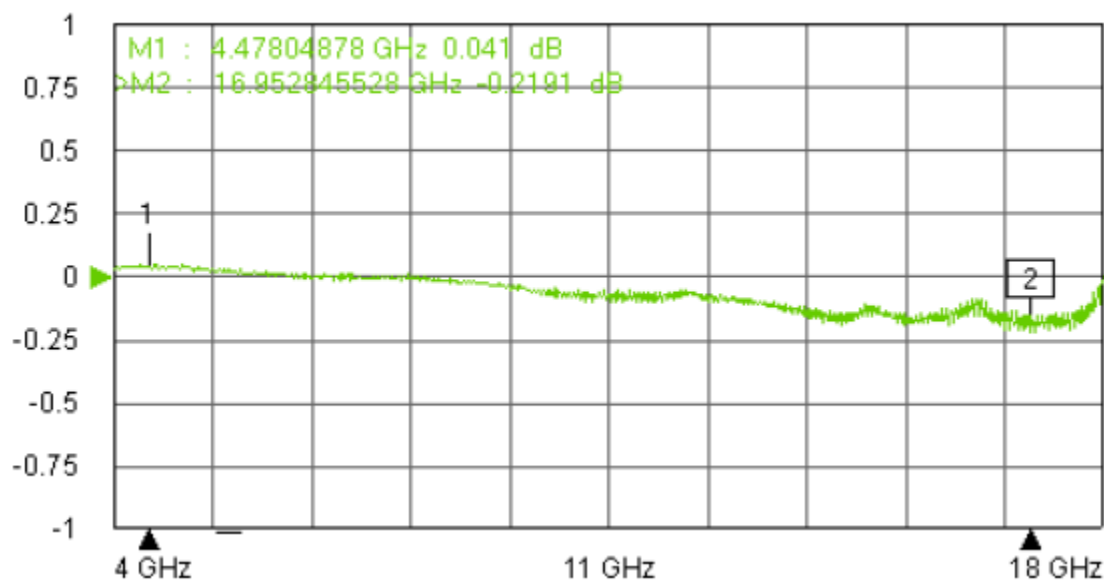
Return Loss Output



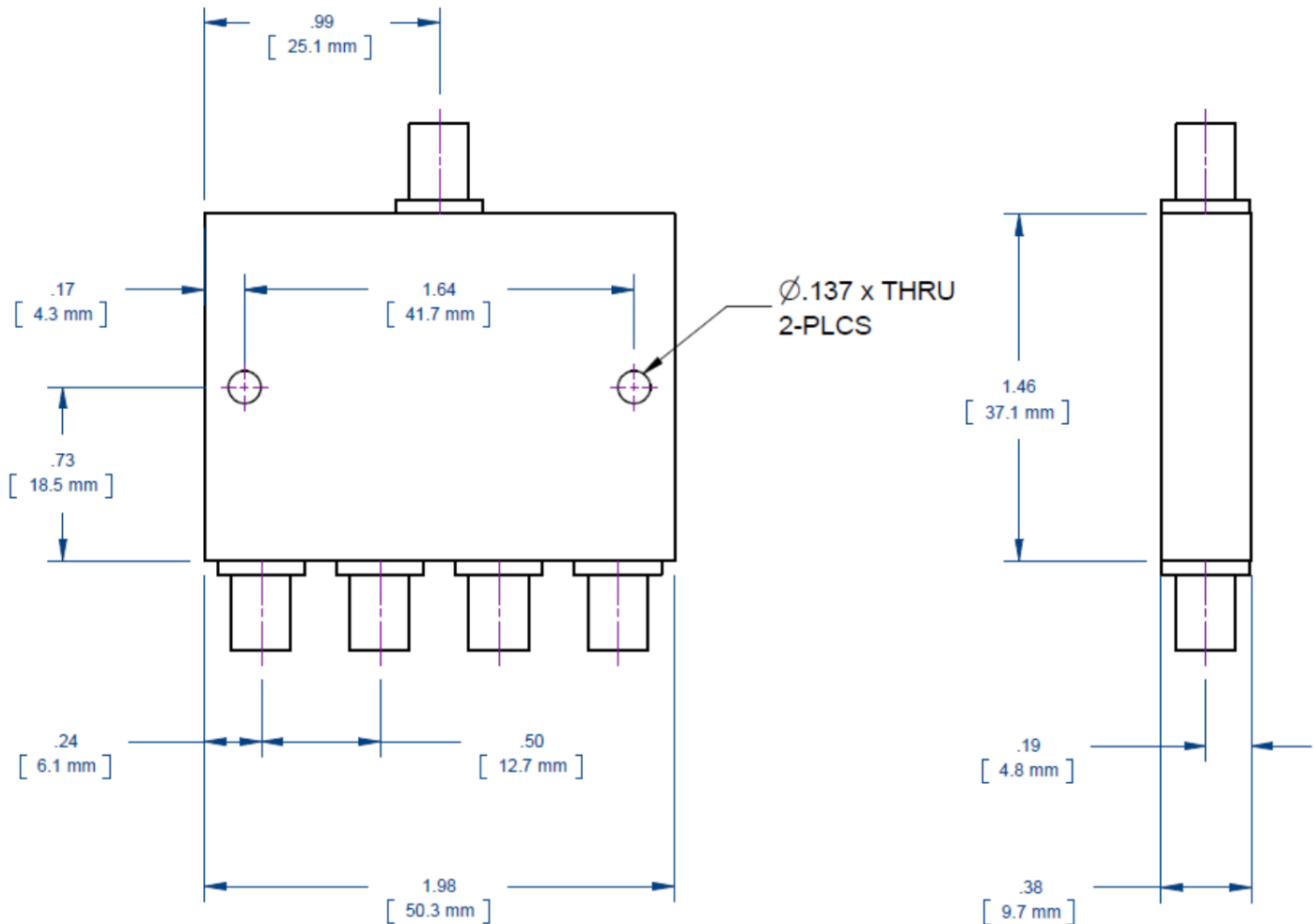
Isolation



Amplitude Balance



Outline Dimensions



Outline drawing: OL-4184

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

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

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