

Wideband Power Divider 8-way SMA Female 500 MHz to 6 GHz Single Sided Connectors

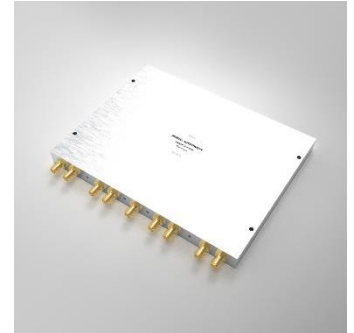
8-way SMA Power Divider from 500 MHz to 6 GHz

D-8966

Description

Model D-8966 from Werbel Microwave is an 8-way in-line power splitter covering the continuous bandwidth of 500 MHz to 6 GHz in an enclosure measuring 6.50 x 4.97 x 0.55 inches with versatile mounting options. The device is RoHS compliant.

Connectors are in a single-sided configuration for applications where access to the common port is required at the same side as the outputs. Typically used in rack mount applications where it is inconvenient to access the far side.



Specification	Min	Typ.	Max	Units
Frequency	0.5		6	GHz
Impedance		50		Ohm
VSWR (common port)		1.60	2.00	:1
VSWR (split ports)		1.20	1.45	:1
Insertion Loss (above theoretical at 3 GHz)		1.0	1.9	dB
Insertion Loss (above theoretical at 6 GHz)		2.2	2.9	dB
Isolation	17	20		dB
Amplitude Balance		0.4	0.8	dB
Phase Balance		6	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	19 oz (540 g)
Humidity	10-90% non-condensing

Materials

RoHS Compliant

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

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

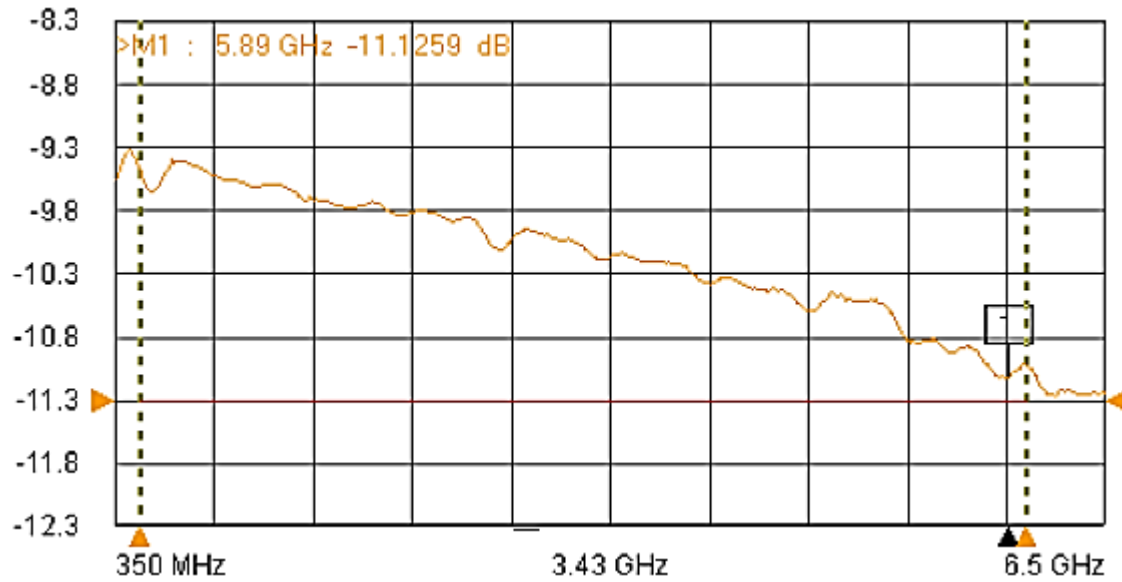


ISO 9001:2015

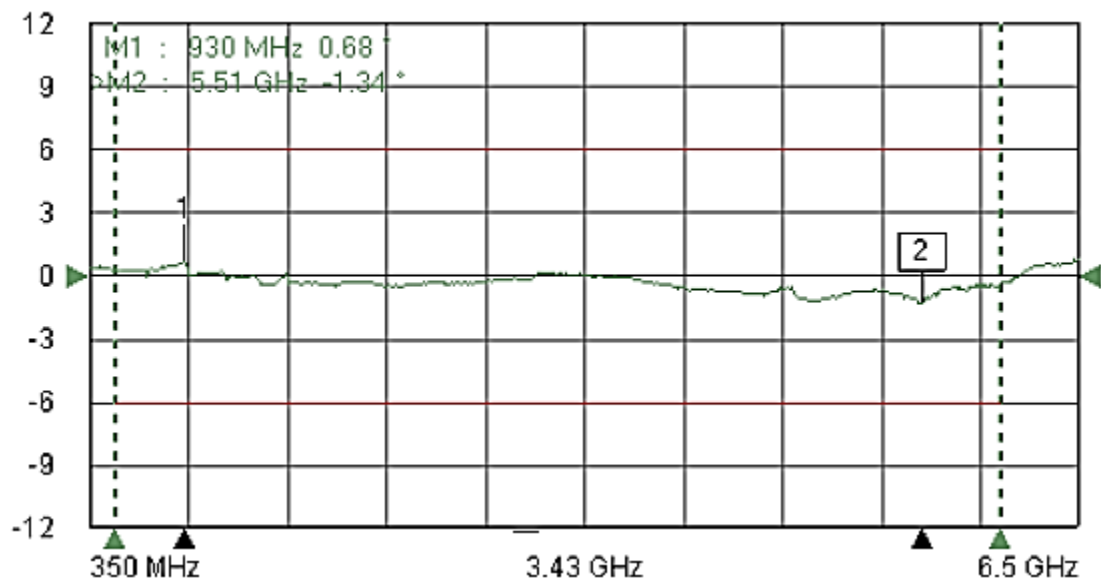
Certified Company

Typical Performance at +25 °C

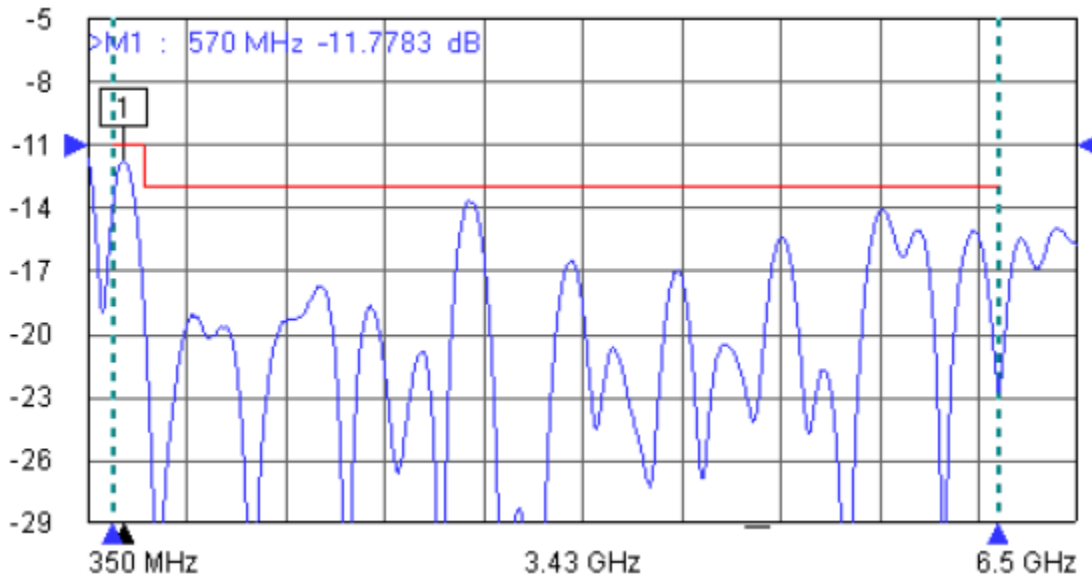
Insertion Loss



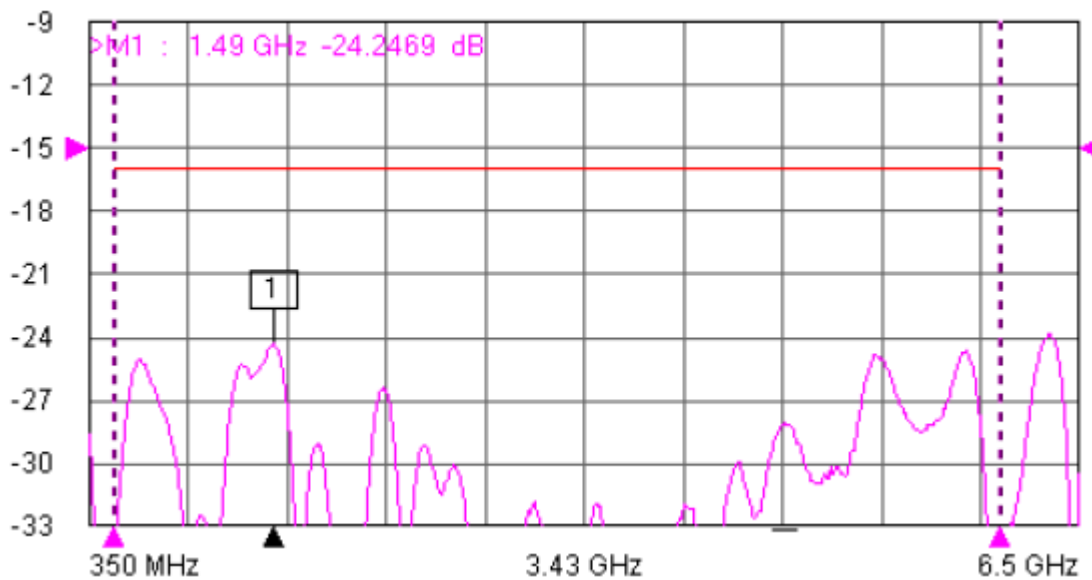
Phase



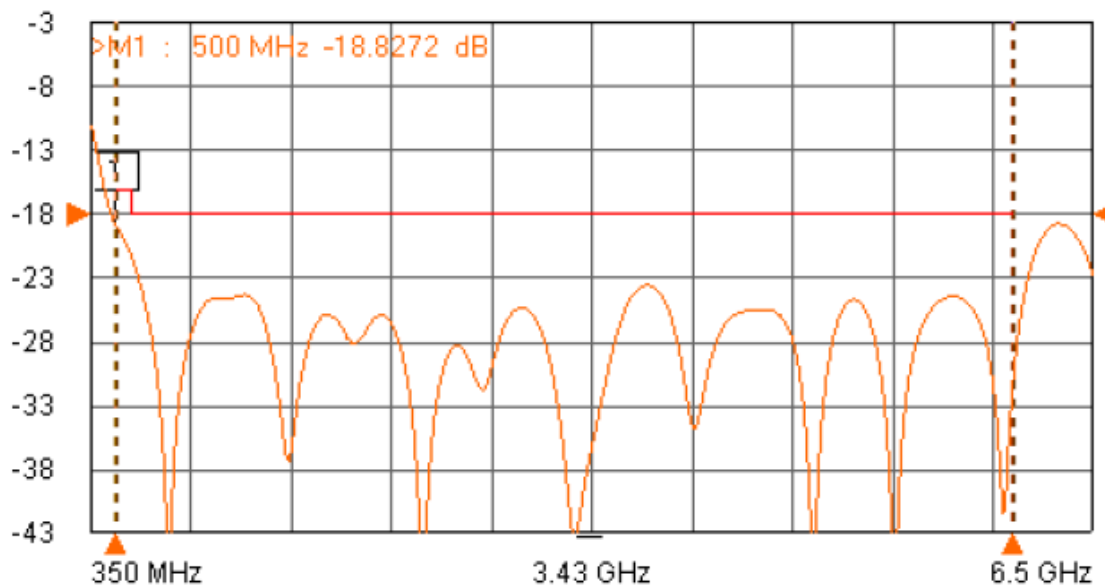
Return Loss Input



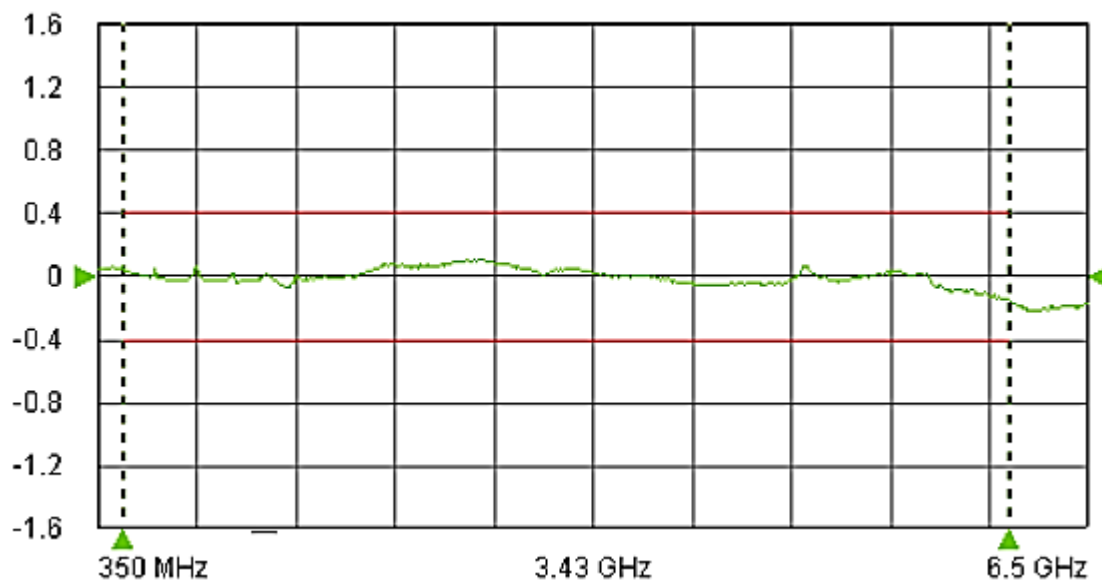
Return Loss Output



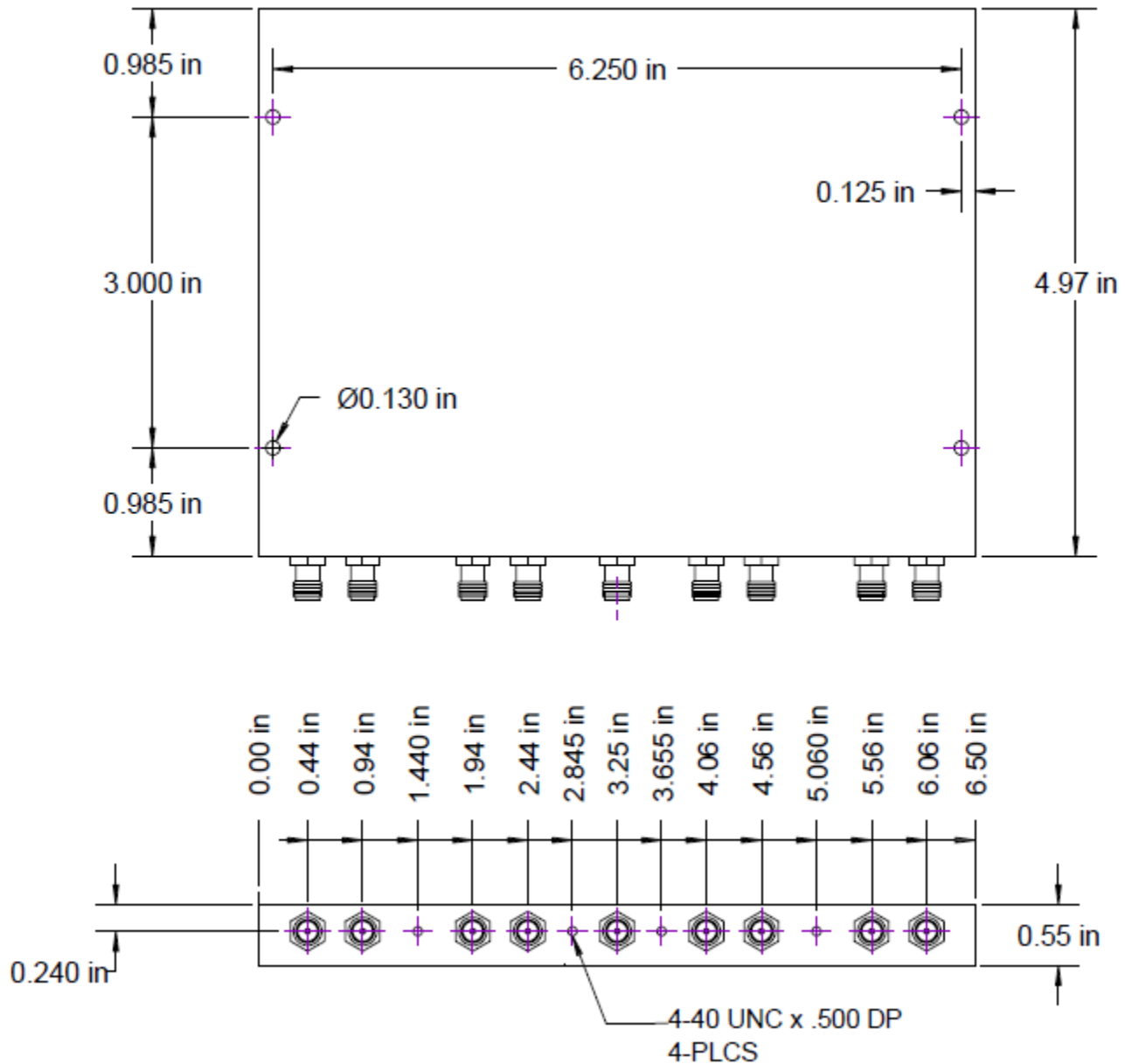
Isolation



Amplitude Balance



Outline Dimensions



Outline drawing: OL-8966

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

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

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