

PRODUCT DATA SHEET
D10811

Werlatone® Mismatch Tolerant® High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

Features:

High Power Wide Bandwidths Small Size High Isolation Custom Designs Available

Electrical Specifications:

Frequency: 30 - 500 MHz
Power: 250 W CW
Insertion Loss: 0.85 dB Max.
VSWR: 1.50:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.5 dB Max.
Isolation: 20 dB Min.

Mechanical Specifications:

Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Size: 12.0 x 8.0 x 2.75"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J4)
D10811-10	N Female	N Female
D10811-20	7/16 Female	N Female
D10811-41	SC Female	N Female

When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.

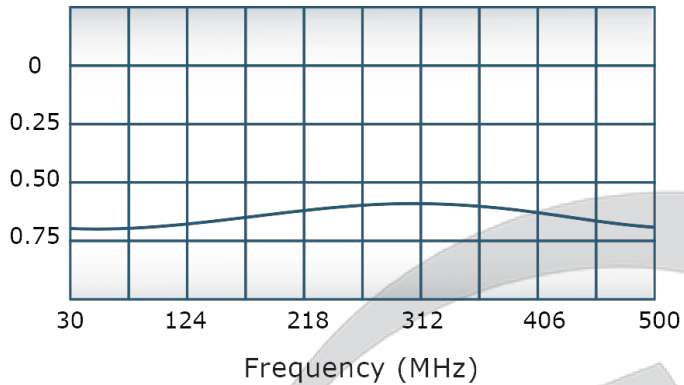


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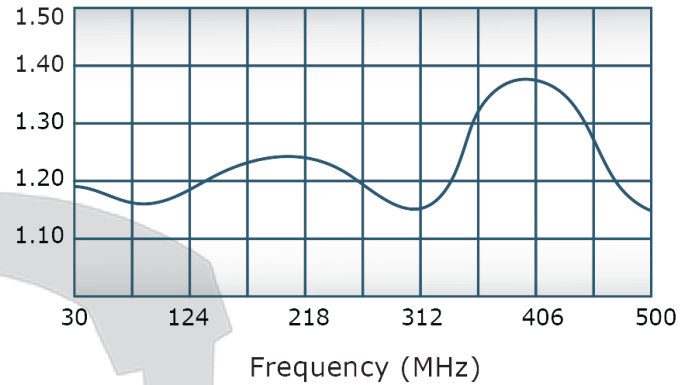
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Performance Data (Specifications subject to change without notice):

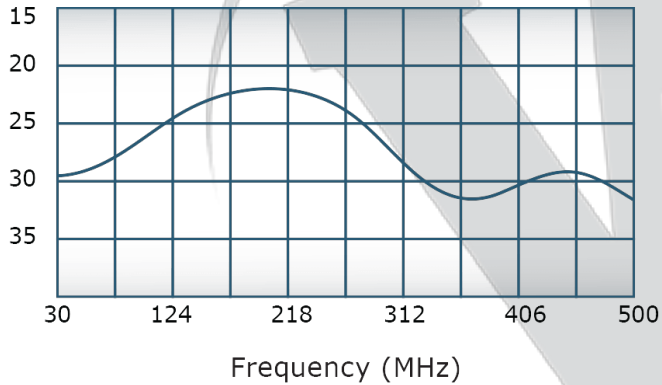
Insertion Loss:



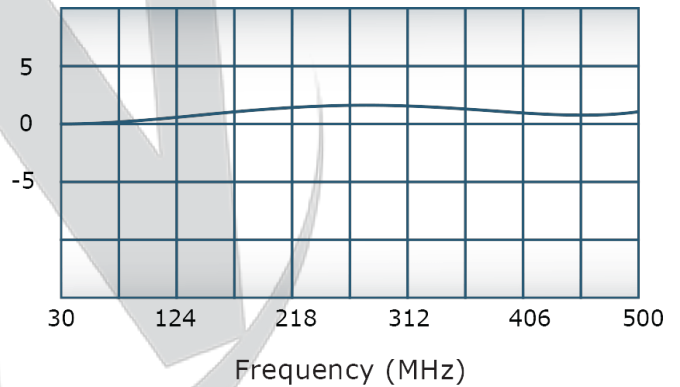
VSWR:



Isolation:



Phase Balance:



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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Technical drawing of a rectangular building facade, showing dimensions and annotations. The drawing includes a side elevation and a top-down view of the facade.

Side Elevation Dimensions:

- Overall width: 17.00
- Overall height: 8.00
- Top horizontal dimensions: 0.25, 5.750, 5.750
- Left vertical dimensions: 7.50, 5.50, 4.00, 2.50, 0.50
- Right vertical dimensions: 7.50, 4.00
- Bottom horizontal dimensions: 0.25, 0.25


Annotations:

- A0.196 (6X) (Top right corner)
- 50MM (Right side, near 4.00 height)
- 12 (Left side, near 5.50 height)
- 10 (Left side, near 4.00 height)
- 16 (Left side, near 2.50 height)

Top-down View Dimensions:

- Overall width: 17.00
- Overall height: 2.75
- Left vertical dimensions: 1.25, 0.25
- Right vertical dimensions: 1.05

The top-down view shows a grid of small circles (likely representing windows or ventilation holes) arranged in a rectangular pattern. The facade is shown with a double-line border, indicating a thick wall.

TOLERANCE (EXCEPT AS NOTED):		WERLATONE INC.	
XX +/- .015 XXX +/- .005		SCALE	DRAWN BY PR APPROVED BY NH
		TITLE	
		OUTLINE	
DATE 5/31/12		DRAWING NUMBER 21110-500	

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