



## PRODUCT DATA SHEET

D9866

**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: 750 W CW  
Insertion Loss: 1.0 dB Max.  
VSWR: 1.50:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance: 0.35 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) |
|----------|---------------|----------------------|
| D9866-10 | N Female      | N Female             |
| D9866-20 | 7/16 Female   | N Female             |
| D9866-41 | 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.

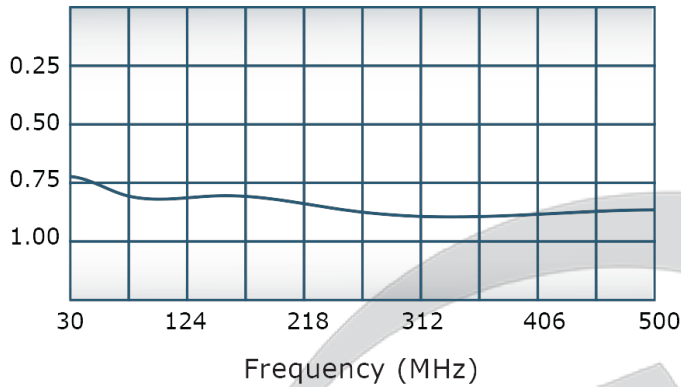


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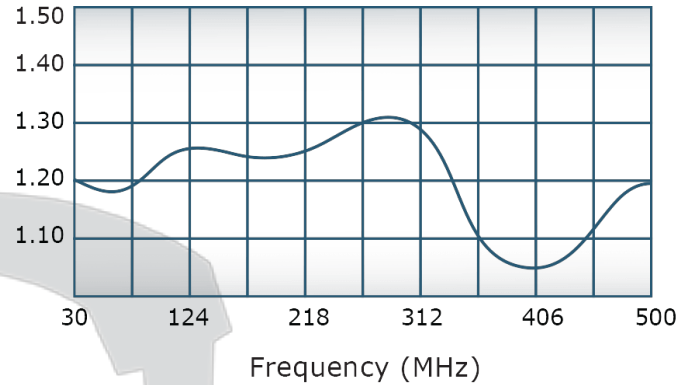
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### Performance Data (Specifications subject to change without notice):

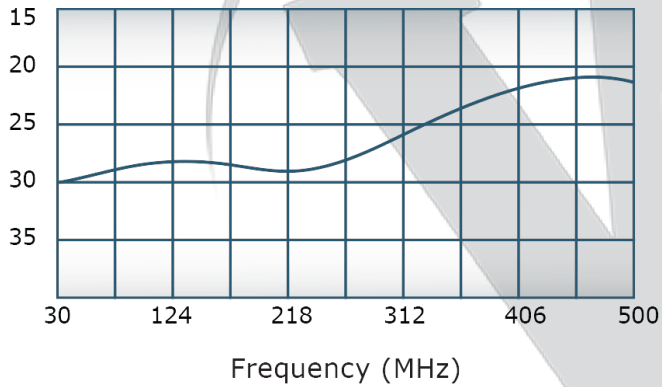
Insertion Loss:



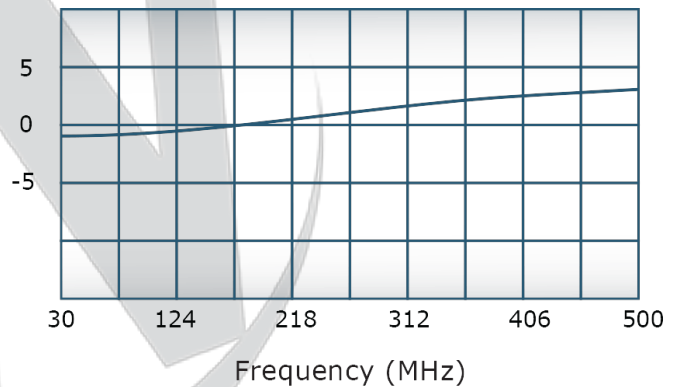
VSWR:



Isolation:



Phase Balance:



Technical drawing of a rectangular structure, likely a container or enclosure, showing dimensions and components.

**Top View:**

- Overall width: 12.00
- Overall height: 8.00
- Internal width (between side walls): 5.750 (twice)
- Internal height (between top and bottom walls): 7.50
- Wall thickness: 0.25
- Bottom wall thickness: 0.50
- Right side wall thickness: 0.25
- Top right corner detail: A0.196 (6X)
- Internal components (left side):
  - Three vertical components labeled 1, 2, and 3.
  - Vertical dimensions from bottom: 0.50, 2.50, 4.00, 5.50, 7.50, 8.00.

**Side View:**

- Overall width: 12.00
- Overall height: 2.75
- Internal width (between side walls): 10.50 (calculated from 12.00 - 2 \* 0.75)
- Wall thickness: 0.25
- Bottom wall thickness: 0.25
- Right side wall thickness: 0.25
- Internal components (left side):
  - One vertical component labeled 1.
  - Vertical dimensions from bottom: 0.25, 1.25.

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

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