



# WERLATONE

Model D7897

Combiners In-Phase Connectorized



## PRODUCT DATA SHEET

D7897

**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: 20 - 100 MHz  
 Power: 1600 W CW  
 Insertion Loss: 0.2 dB Max.  
 VSWR: 1.20:1 Max.  
 Phase Balance:  $\pm 5^\circ$  Max.  
 Amplitude Balance: 0.1 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  
 Weight: 3 lb. 2 oz.  
 Size: 7.0 x 4.0 x 2.62"

### Connector Configurations:

| Model     | Sum Port (J1) | Input/Output (J2) | Input/Output (J3) |
|-----------|---------------|-------------------|-------------------|
| D7897-10  | N Female      | N Female          | N Female          |
| D7897-20  | 7/16 Female   | N Female          | N Female          |
| D7897-41  | SC Female     | N Female          | N Female          |
| D7897-102 | SMA           | SMA               | SMA               |

**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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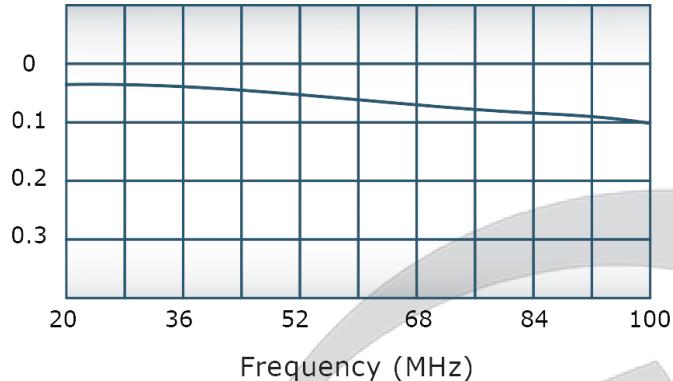


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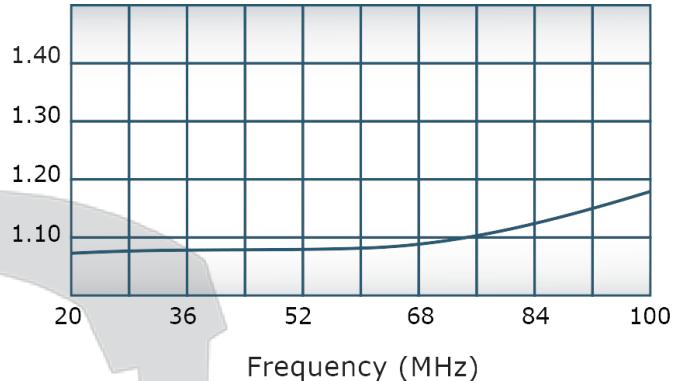
D7897

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

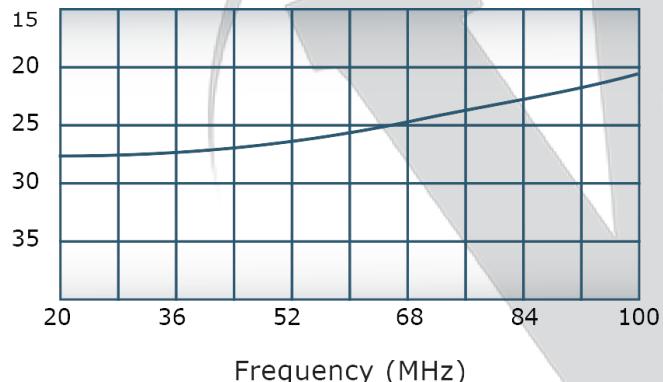
Insertion Loss:



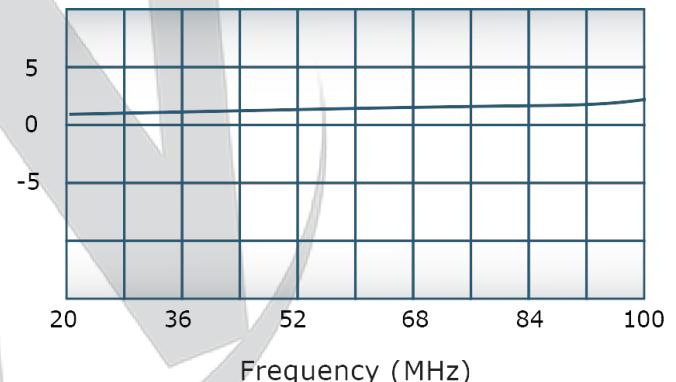
VSWR:



Isolation:



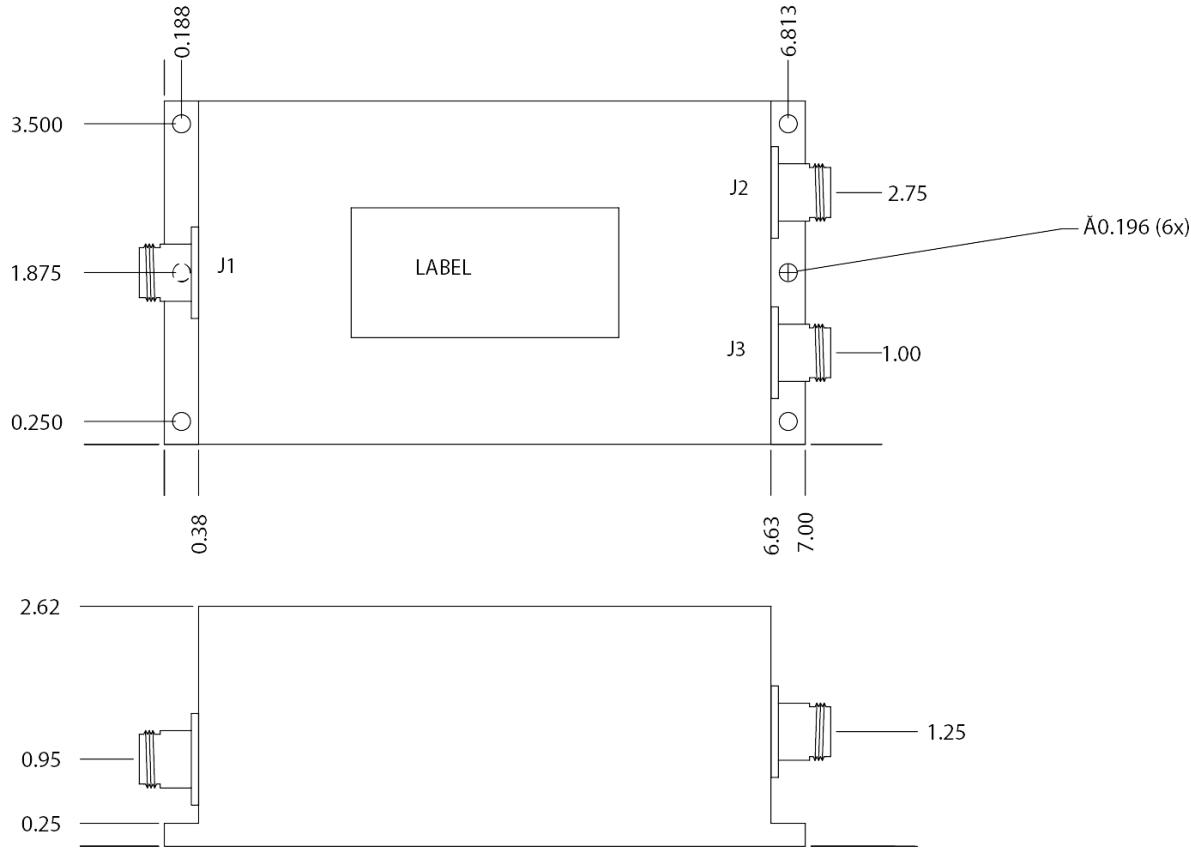
Phase Balance:



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| DATE | SYM | REVISION RECORD | AUTH | DR | CK |
|------|-----|-----------------|------|----|----|
|      |     |                 |      |    |    |
|      |     |                 |      |    |    |
|      |     |                 |      |    |    |
|      |     |                 |      |    |    |



NOTES:

1) MAT'L ALUM  
FINISH CHEM FILM  
YELLOW IRIDITE PER MIL C5541  
2) CONNECTORS:  
J1-J3 N FEMALE

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|                             |                |                             |                           |
|-----------------------------|----------------|-----------------------------|---------------------------|
| TOLERANCE                   | WERLATONE INC. |                             |                           |
|                             | USED ON:       | SCALE                       | DRAWN BY: MJ<br>APVVD BY: |
| XX +/- .015<br>XXX +/- .005 |                |                             |                           |
|                             | TITLE OUTLINE  |                             |                           |
|                             | DATE<br>3/2/07 | DRAWING NUMBER<br>20322-500 |                           |

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