

**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:                    136 - 174 MHz  
 Power:                        20 W / Input Non-Coherent  
 Insertion Loss:            0.35 dB Max.  
 VSWR:                        1.20:1 Max.  
 Phase Balance:            ± 5° Max.  
 Amplitude Balance:      0.2 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:                     1.0 lb. 4 oz.  
 Size:                         4.0 x 3.75 x 1.39"

**Connector Configurations:**

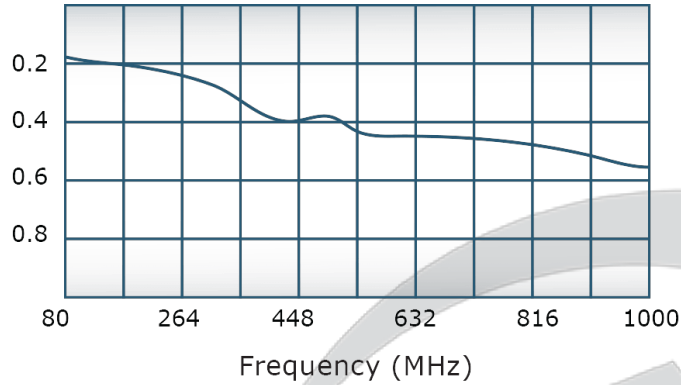
| Model     | Sum Port (J1) | Input/Output (J2-J5) |
|-----------|---------------|----------------------|
| D9579-102 | SMA           | SMA                  |

**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.

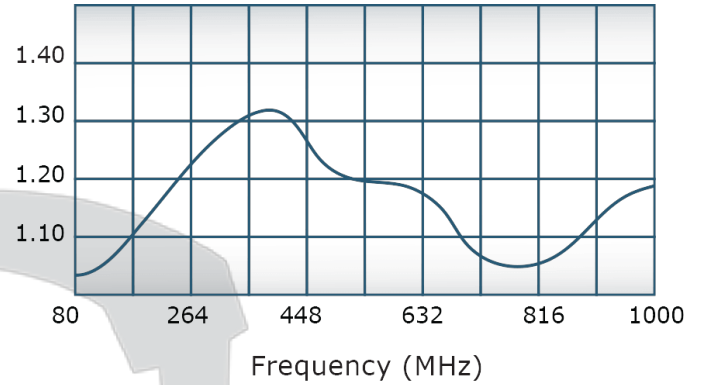


## Performance Data (Specifications subject to change without notice):

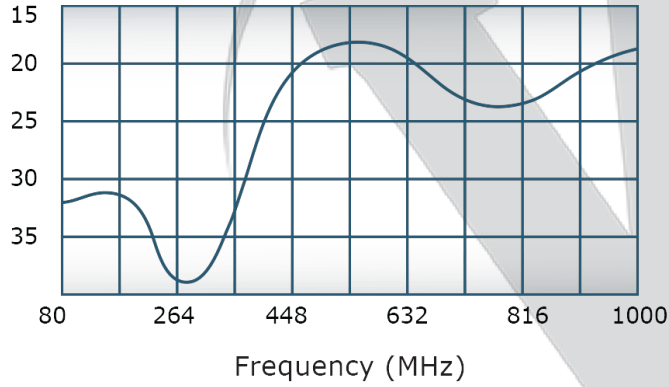
Insertion Loss:



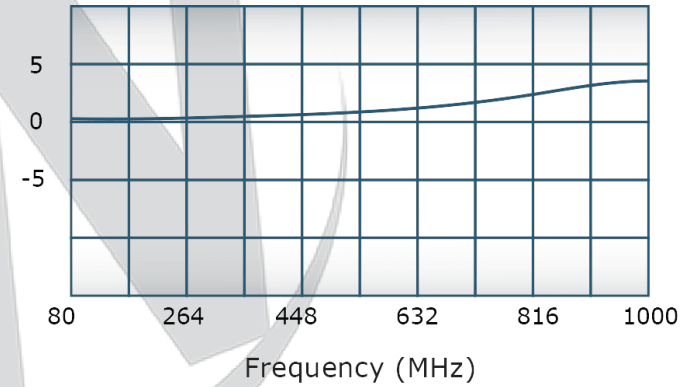
VSWR:



Isolation:



Phase Balance:



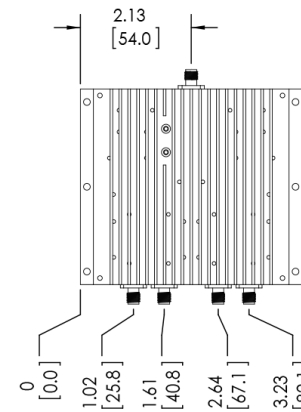
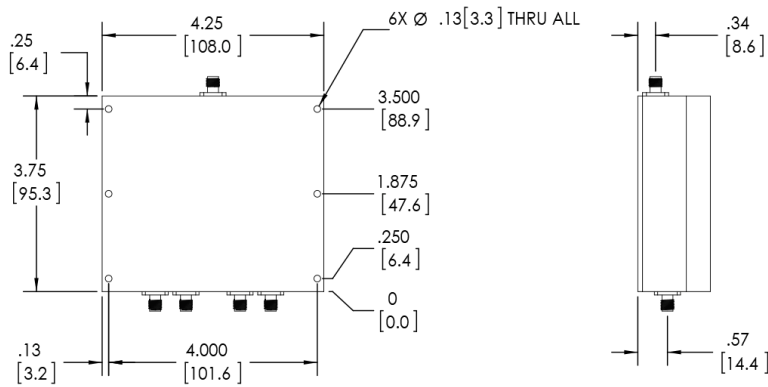
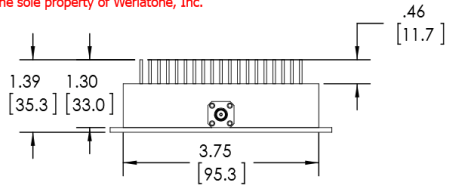
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Werlatone, Inc.

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| REVISIONS |                 |      |          |
|-----------|-----------------|------|----------|
| REV.      | REVISION RECORD | DATE | APPROVED |
|           |                 |      |          |



- 1.
- 2.
- 3.

|   |  |                   |      |   |
|---|--|-------------------|------|---|
| UNLESS OTHERWISE SPECIFIED                |  | OWN               | DATE | <b>WERLATONE SINCE 1965</b><br>17 Jon Barrett Rd<br>Patterson, NY 12563 |
| INTERPRET DRAWING PER MIL-STD-100         |  | CHK               | DATE |   |
| DIMENSIONS PER ASME Y14.5M-2009           |  | PR                | DATE | TITLE   |
| DIMENSIONS ARE IN INCHES (mm)             |  | ENGR              | DATE |   |
| DIMENSIONAL LIMITS APPLY BEFORE PROCESSES |  | MPGR              | DATE | <b>OUTLINE</b><br>SIZE CAGE CODE DWG NO                                 |
| TOLERANCES:                               |  | QA                | DATE |   |
| ANGLES = 3°                               |  | RELE              | DATE | B 28812 20994-500<br>SCALE 1:2 SHEET 1 OF 1                             |
| 3 RL ± .002 [13]                          |  | APPLICATION       |      |   |
| 2 FL ± .015 [38]                          |  | NEXT ASSY USED ON |      |   |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX |  | APPLICATION       |      |   |
| CONCENTRICITY FUNDING DIA-.002 FPM        |  | APPLICATION       |      |   |
| MACHINE TOOL MISMATCH .003 MAX            |  | APPLICATION       |      |   |
| THIRD ANGLE PROJECTION                    |  | APPLICATION       |      |   |

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