

**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:            0.01 - 30 MHz  
 Power:                25 W CW  
 Insertion Loss        0.4 dB Max.  
 VSWR:                1.35:1 Max.  
 Phase Balance:       ± 5° dB 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 (Clear Iridite) RoHS Compliant Available)  
 Operating Temperature: -55°C to +75°C  
 Storage Temperature: -60°C to +85°C  
 Weight:                1 lb 8 ounces  
 Size:                    5.0 x 3.0 x 1.5"

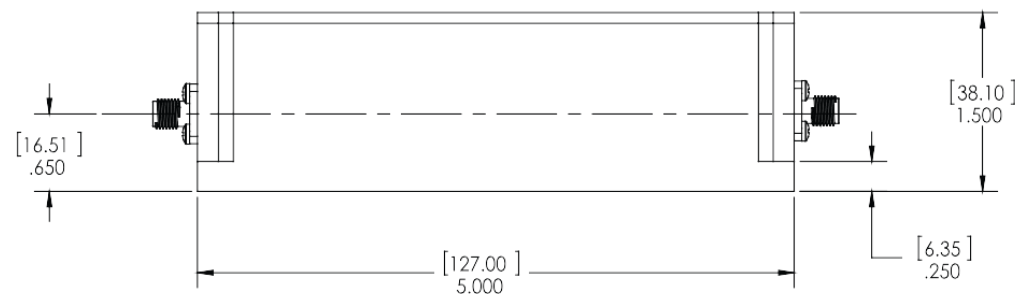
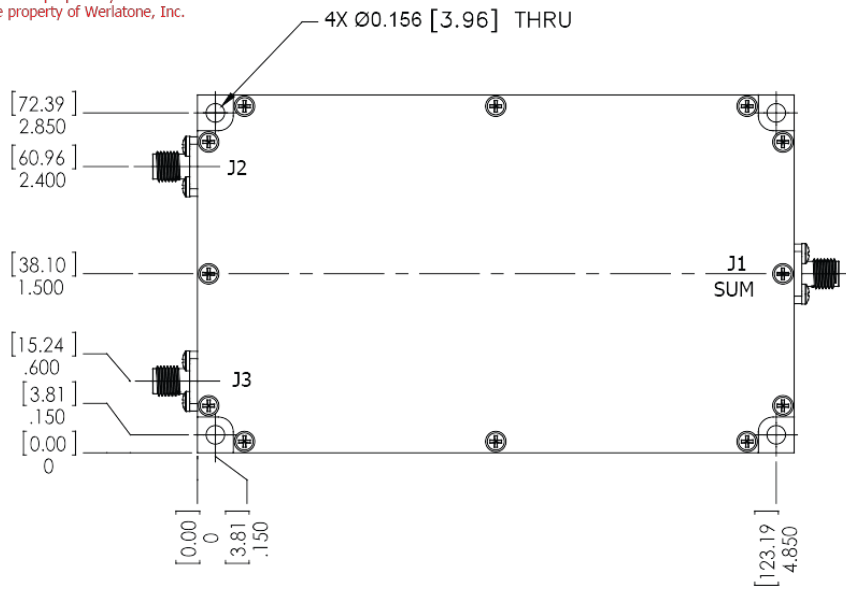
**Connector Configurations:**

| Model      | Sum Port (J1) | Input/Output (J2) | Input/Output (J3) |
|------------|---------------|-------------------|-------------------|
| D10421-102 | SMA Female    | SMA Female        | SMA 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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| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | REVISION RECORD | DATE      | APPROVED |
| A         | ECN: 7954       | 1/15/2013 | SC       |
| B         | ECN 8714        | 10/21/14  | BW       |



- NOTES: UNLESS OTHERWISE SPECIFIED**
- MATERIAL: ALUMINUM 6061-T6**
  - SURFACE FINISH: CHEM FILM PER MIL-DTL-5541F TYPE II CLASS 3 (RoHS COMPLIANT)**
  - CONNECTORS: ALL SMA FEMALE**

|   |  |                        |           |                   |                     |  |
|---|--|------------------------|-----------|-------------------|---------------------|--|
| UNLESS OTHERWISE SPECIFIED                  |  | OWN                    | DATE      | W                 | WERLATONESINCE 1965 | 17 Jon Barrett Rd<br>Patterson, NY 12563 |
| • INTERPRET DRAWING ACC. MIL-STD-130        | • DIMENSIONS PER ASME Y14.5M-2009          | SC                     | 1/15/2013 |                   |                     |  |
| • DIMENSIONS ARE IN INCHES                  | • DIMENSIONS ARE IN INCHES                 | CHK                    | DATE      | TITLE             |                     |  |
| • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES | • TOLERANCES:                              | ENGR                   | DATE      | SIZE              |                     |  |
| • ANGLES ± 2°                               | • REMOVE ALL BURS AND SHARP EDGES R.04 MAX | REFGR                  | DATE      | CAGE CODE         |                     |  |
| • 3 PL ± .005 (1.3)                         | • CONCENTRICITY FRACTIONED DIA. .003 FDM   | QA                     | DATE      | DWG NO            |                     |  |
| • 2 PL ± .015 (1.38)                        | • MACHINE TOOL MARKING: .003 MAX           | RELSE                  | DATE      | REV               |                     |  |
| • NEXT ASSY D9515                           | • APPLICATION USED ON                      | THIRD ANGLE PROJECTION |           | B 28812 20964-500 |                     | B  |
| SCALE 1:1                                   |  |                        |           | SHEET 1 OF 1      |                     |  |

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