
**PRODUCT DATA SHEET**
**D9194**

**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      Custom Designs Available

**Electrical Specifications:**

|                    |                 |
|--------------------|-----------------|
| Frequency:         | 2305 - 2360 MHz |
| Power:             | 1000 W CW       |
| Insertion Loss:    | 0.2 dB Max.     |
| VSWR:              | 1.15:1 Max.     |
| Phase Balance:     | ± 5° Max.       |
| Amplitude Balance: | 0.2 dB Max.     |
| Isolation:         | Non-Isolated    |

**Mechanical Specifications:**

|                        |  |
|------------------------|--|
| Type:                  | Connectorized  |
| Material:              | Aluminum 6061-T6   |
| Surface Finish:        | Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS Compliant Film) |
| Operating Temperature: | -55°C to +75°C   |
| Storage Temperature:   | -60°C to +85°C   |
| Size:                  | RADIAL 4.02 x 3.57" NOM  |

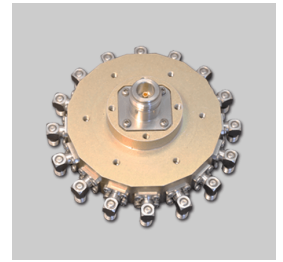
**Connector Configurations:**

| Model       | Sum Port (J17)                         | Input/Output (J1-J16)                |
|-------------|--|--------------------------------------|
| D9194R-20   | 7/16 Female Long Barrel- Silver Plated | N Female- Silver Plated              |
| D9194R-20RT | 7/16 Female Long Barrel- Silver Plated | Right Angle N Female - Silver Plated |

**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.

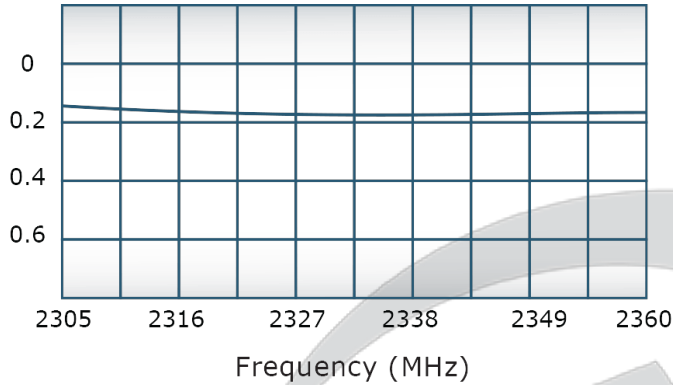
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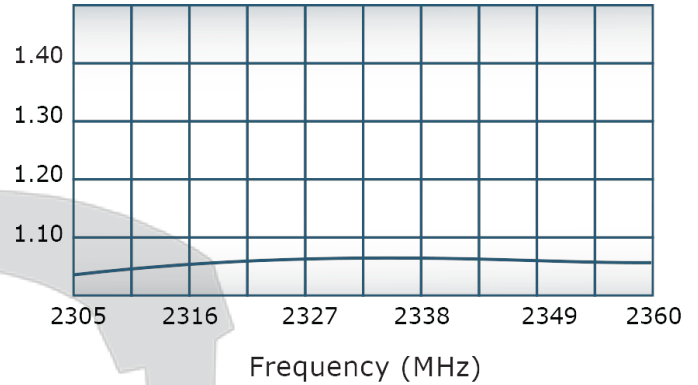


## Performance Data (Specifications subject to change without notice):

Insertion Loss:



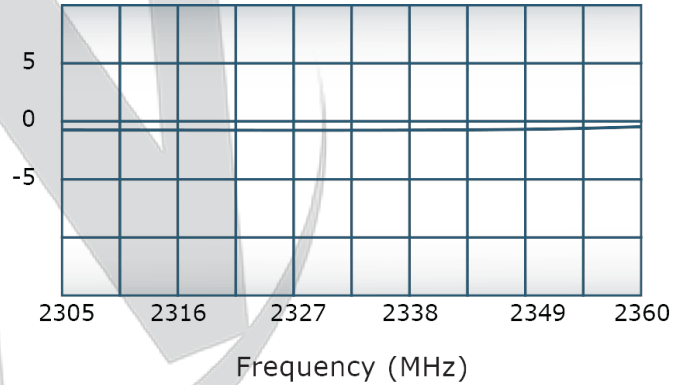
VSWR:



Since 1965:



Phase Balance:



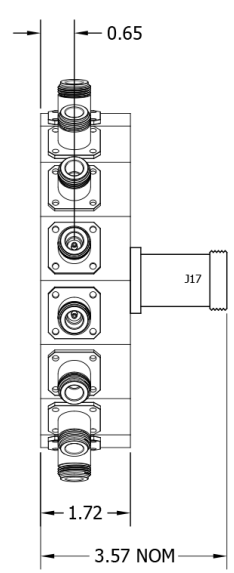
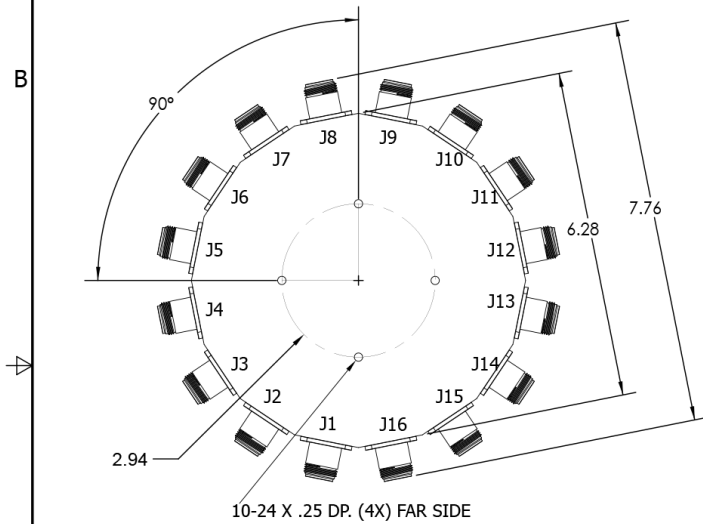
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| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | REVISION RECORD | DATE       | APPROVED |
| -         | INITIAL RELEASE | 12/12/2012 | SC       |



|  |         |                        |            |  |
|--|---------|------------------------|------------|--|
| UNLESS OTHERWISE SPECIFIED                       |         | OWN                    | DATE       | WERLATONE SINCE 1965<br>17 Jon Barrett Rd<br>Patterson, NY 12563 |
| INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 |         | SC                     | 12/12/2012 |  |
| DIMENSIONING PER ASME Y14.5M-2009                |         | CHK                    | DATE       | TITLE  |
| DIMENSIONAL UNITS APPLY BEFORE PROCESSES         |         | ENGR                   | DATE       | OUTLINE  |
| DIMENSIONS ARE IN INCHES                         |         | MPGR                   | DATE       | SIZE   |
| TOLERANCES:                                      |         | QA                     | DATE       | CAGE CODE  |
| ANGLES = 3°                                      |         | RELE                   | DATE       | DWG NO   |
| 3 PL ± .005                                      |         |                        |            | B 28812 20978-500  |
| 2 PL ± .015                                      |         |                        |            | REV  |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX        |         |                        |            | -  |
| CONCENTRICITY FACHED 0.04 - .002 FPM             |         |                        |            | SCALE  |
| MACHINE TOOL MISMATCH .003 MAX                   |         |                        |            | 1:2  |
| NEXT ASSY  | USED ON | THIRD ANGLE PROJECTION |            | SHEET 1 OF 1   |
| APPLICATION                                      |         |                        |            |  |

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