



**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 - 520 MHz  
Power: 2000 W CW  
Insertion Loss: 0.6 dB Max.  
VSWR: 1.35:1 Max.  
Phase Balance: ± 5° Max.  
Amplitude Balance: 0.3 dB Max.  
Isolation: 15 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: 7 lbs. 4 oz.  
Size: 7.75 x 7.0 x 2.6"

**Connector Configurations:**

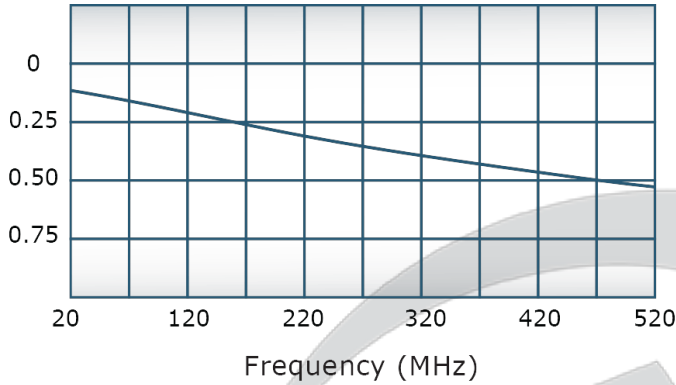
| Model    | Sum Port (J1) | Input/Output (J2) | Input/Output (J3) |
|----------|---------------|-------------------|-------------------|
| D9605-20 | 7/16 Female   | N Female          | N Female          |
| D9605-41 | SC Female     | N Female          | N Female          |

**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.

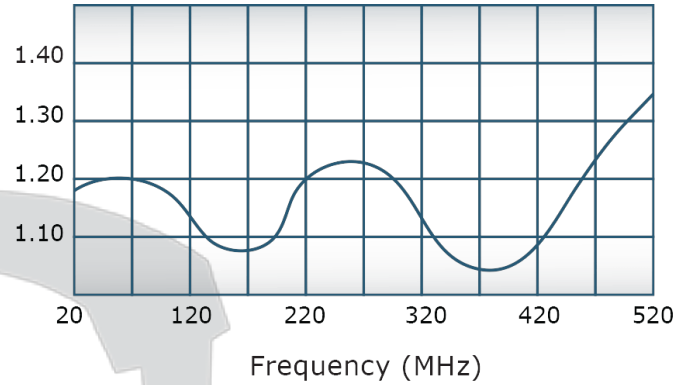


## Performance Data (Specifications subject to change without notice):

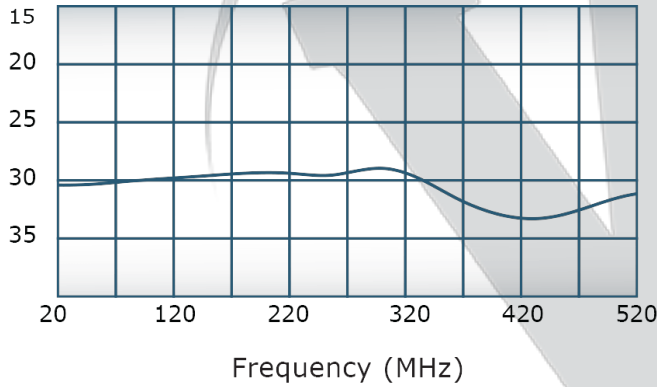
Insertion Loss:



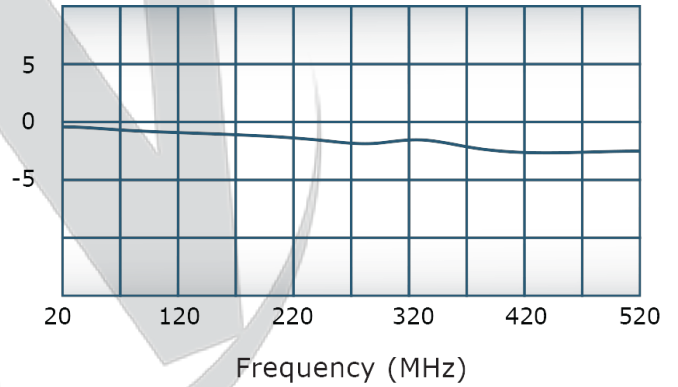
VSWR:

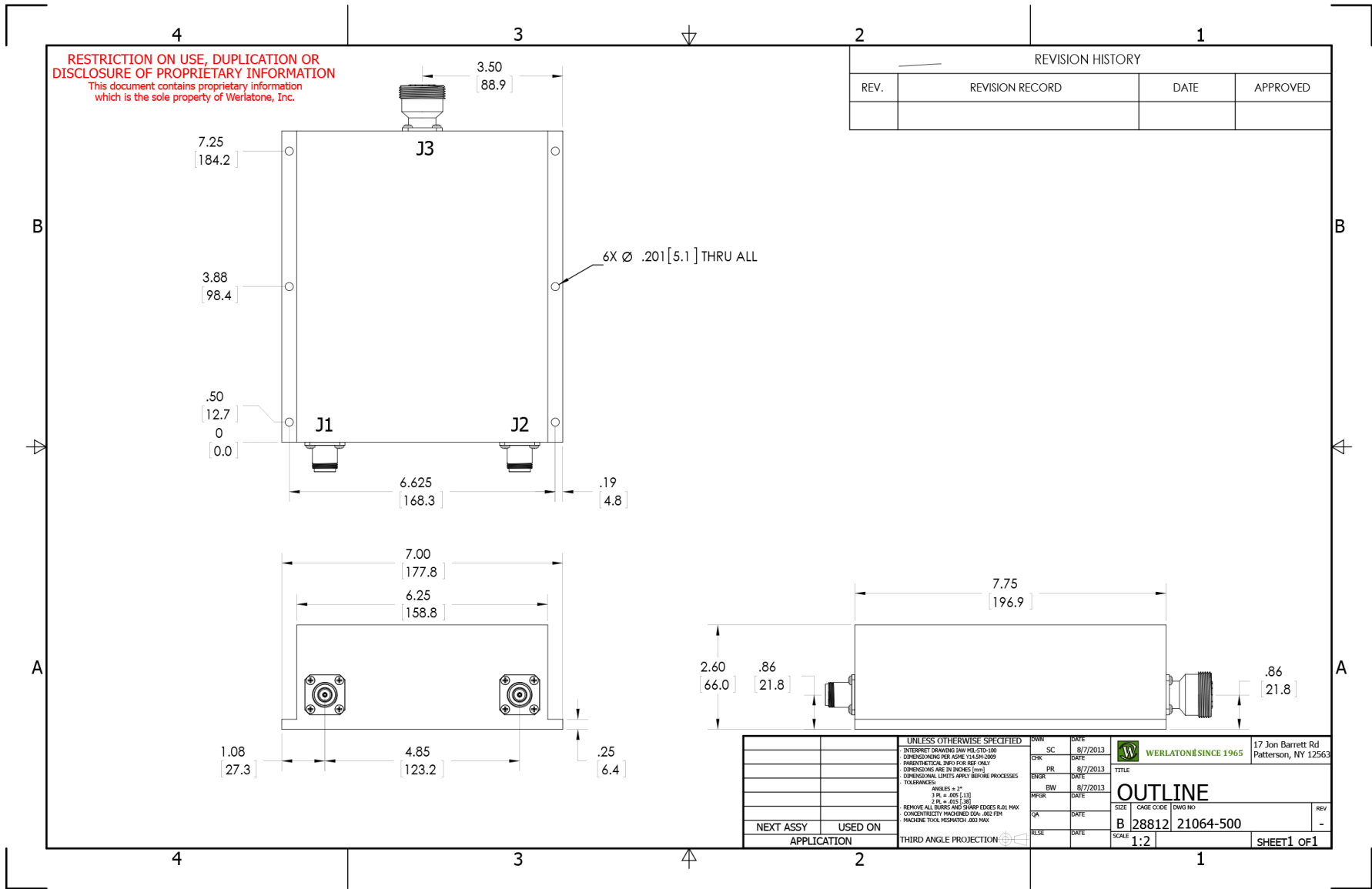


Isolation:



Phase Balance:





|  |                        |       |        |   |
|--|------------------------|-------|--------|---|
| UNLESS OTHERWISE SPECIFIED   |                        | OWN   | DATE   | <b>WERLATONE SINCE 1965</b><br>17 Jon Barrett Rd<br>Patterson, NY 12563 |
| INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100<br>DIMENSIONS PER ASME Y14.5M-2009<br>DIMENSIONS ARE IN INCHES (mm)<br>DIMENSIONAL UNITS APPLY BEFORE PROCESSES |                        | CHK   | DATE   |   |
| TOLERANCES:  |                        | PR    | DATE   | TITLE   |
| ANGLES = 3°  |                        | ENG   | DATE   | OUTLINE   |
| 3 PL ± .006 [13]<br>2 PL ± .015 [38]   |                        | BW    | DATE   | SIZE  |
| REMOVE ALL BURRS AND SHARP EDGES R.01 MAX  |                        | MPGR  | DATE   | CAGE CODE   |
| CONCENTRICITY FRACTURED DIA = .002 FPM   |                        | QA    | DATE   | DWG NO  |
| MACHINE TOOL MISMATCH .003 MAX   |                        | RELSE | DATE   | REV   |
| NEXT ASSY  | USED ON                | SCALE | 1:2    | B 28812 21064-500   |
| APPLICATION  | THIRD ANGLE PROJECTION | SHEET | 1 OF 1 | REV -   |

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.  
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com