


**PRODUCT DATA SHEET**
**D9891**

**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 - 500 MHz  
 Power:                              1000 W CW  
 Insertion Loss:                0.5 dB Max.  
 VSWR:                              1.40:1 Max.  
 Phase Balance:                ± 5° Max.  
 Amplitude Balance:         0.3 dB Max.  
 Isolation:                         18 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  
 Size:                                 6.5 x 6.25 x 2.25"

**Connector Configurations:**

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D9891-10	N Female	N Female	N Female
D9891-20	7/16 Female	N Female	N Female
D9891-41	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.

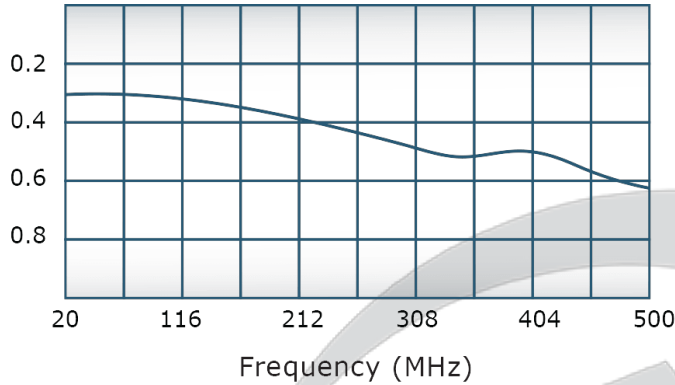
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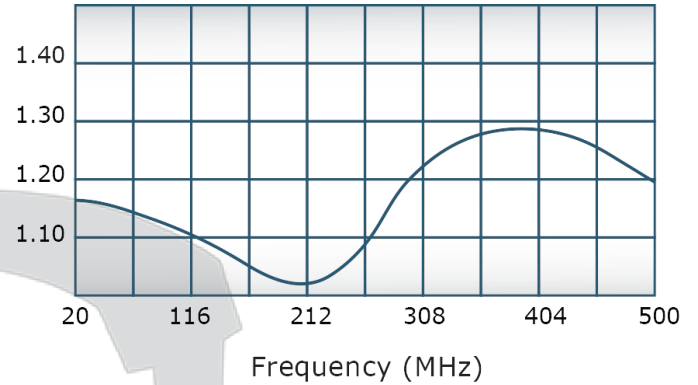


## Performance Data (Specifications subject to change without notice):

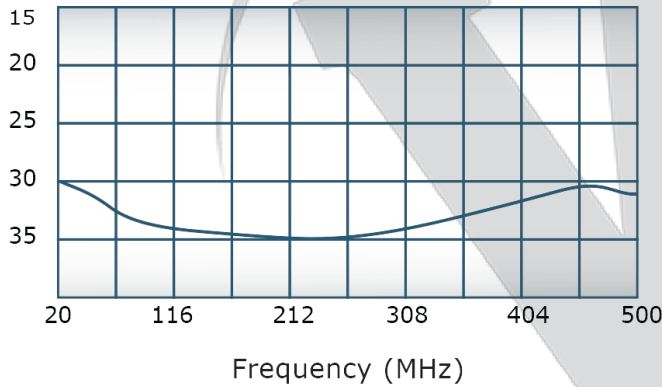
Insertion Loss:



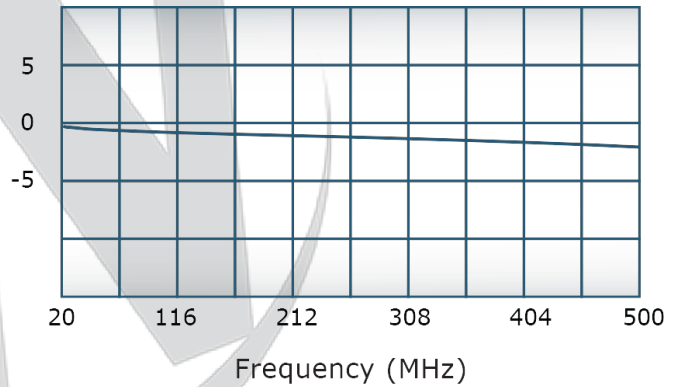
VSWR:



Isolation:



Phase Balance:



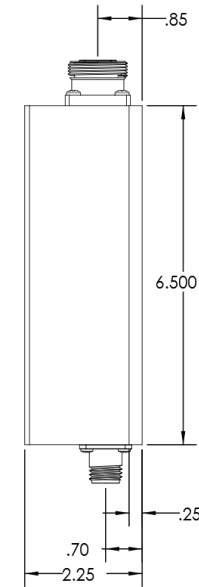
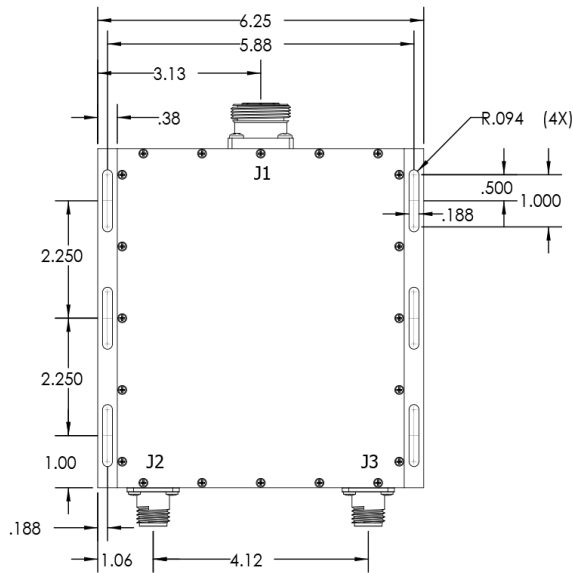
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REVISIONS			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	6/11/2012	



UNLESS OTHERWISE SPECIFIED		OWN	DATE	 <b>WERLATONE</b> SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS ARE IN INCHES DIMENSIONAL UNITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES ± 3° 3 PL ± .015 2 PL ± .015 REMOVE ALL BURRS AND SHARP EDGES R.01 MAX CONCENTRICITY FINISHED DIA ± .002 FPM MACHINE TOOL MISMATCH .003 MAX		CHK	DATE	
NEXT ASSY		ENGR	DATE	TITLE
USED ON		MPFR	DATE	<b>OUTLINE</b>
APPLICATION		QA	DATE	SIZE CAGE CODE DWG NO
THIRD ANGLE PROJECTION		RELE	DATE	<b>B 28812 20858-500</b>
				SCALE
				<b>1:2</b>
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				SHEET 1 OF 1

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