


**PRODUCT DATA SHEET**
**D10907**

**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:                              1300 W CW  
 Insertion Loss:                0.5 dB Max.  
 VSWR:                              1.35:1 Max.  
 Phase Balance:                ± 5° Max.  
 Amplitude Balance:         0.3 dB Max.  
 Isolation:                        15 dB Min.

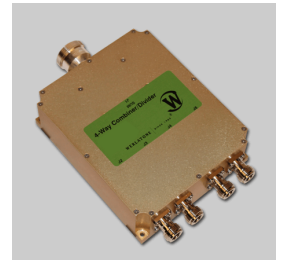
**Mechanical Specifications:**

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:                            4 lbs.  
 Size:                                5.7 x 4.7 x 1.75"

**Connector Configurations:**

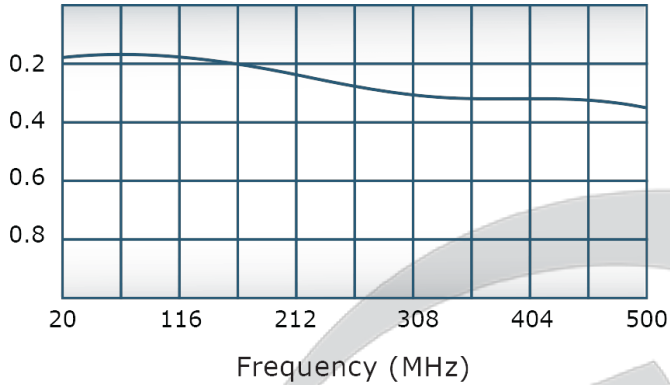
Model	Sum Port (J1)	Input/Output (J2-J5)
D10907-10	N Female	N Female
D10907-12	N Female	SMA Female
D10907-20	7/16 Female	N Female
D10907-22	7/16 Female	SMA
D10907-41	SC Female	N Female

**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.

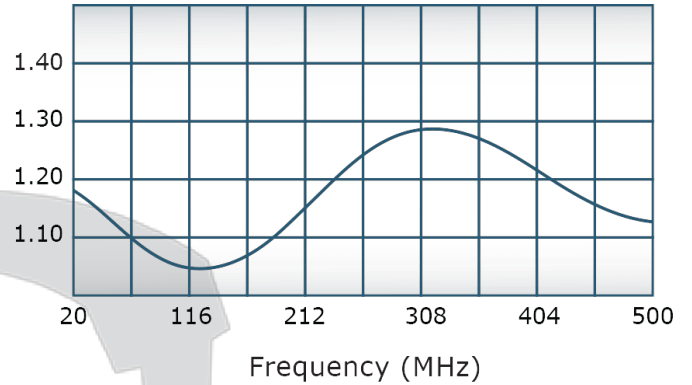


### Performance Data (Specifications subject to change without notice):

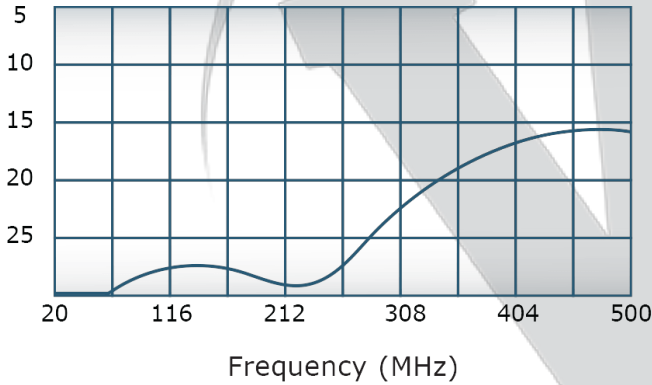
Insertion Loss:



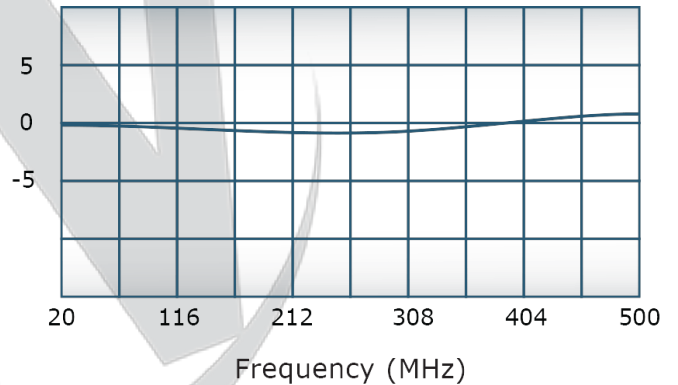
VSWR:



Isolation:

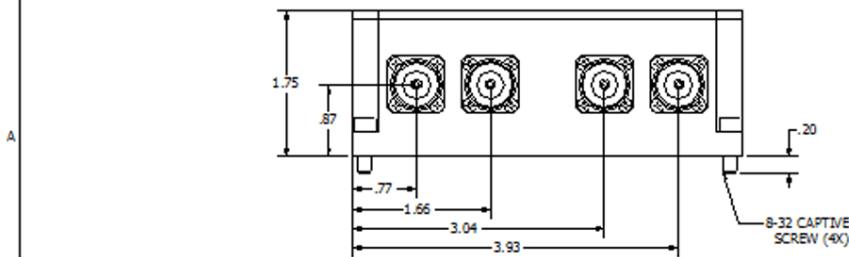
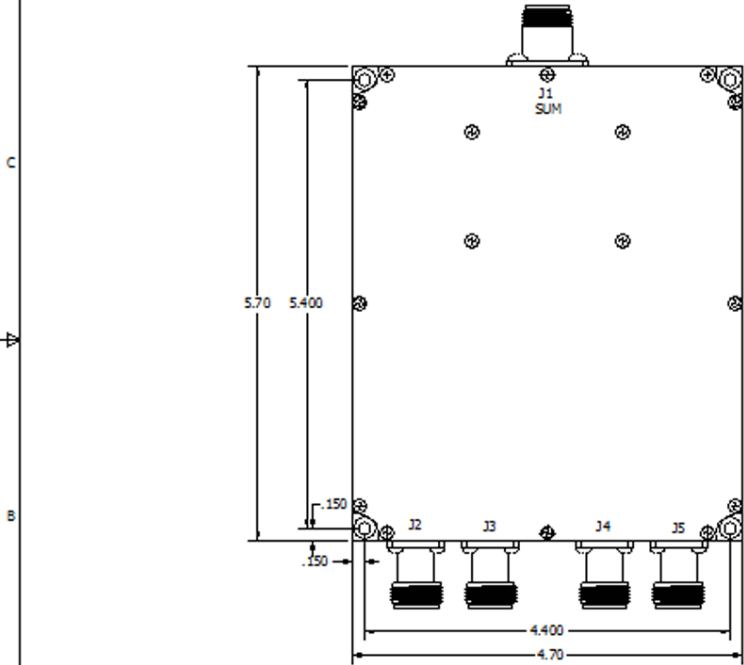
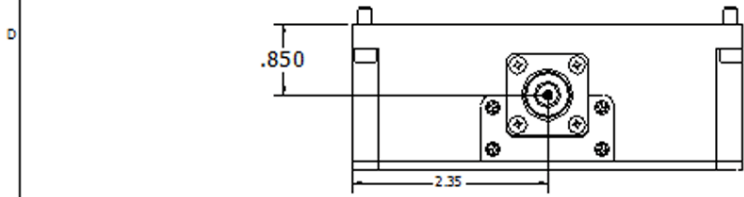


Phase Balance:



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REVISION HISTORY						
DATE	REV	REVISION RECORD	AUTH	CHK	APPV	
7/28/11	-	INITIAL RELEASE	PR			
5/28/13	A	8198	PR			
12/14/18	B	9718	PK			



UNLESS OTHERWISE SPECIFIED

- \* INTERIOR OF DRAWING SHOWN UNLESS NOTED
- \* DIMENSIONS PER ASME Y14.5M-2009
- \* PRACTICAL TOLERANCES APPLY
- \* DIMENSIONS ARE IN INCHES
- \* DIMENSIONAL LIMITS APPLY BEFORE FINISHING

\* TOLERANCES

ANGLES	▲ .5°
XXX	▲ .005
XXX	▲ .015

- \* HOLE TOLERANCES = DIA ± .001
- \* REMOVE ALL BURRS AND SHARP EDGES: 0.1 R MAX
- \* CONCENTRICITY MACHINED DIA: .005 FDI
- \* MACHINE TOOL VARIATION: .005 MAX

THIRD ANGLE PROJECTION

DATE	7/28/2011	<b>WERLATONE</b>   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
PR				
DATE		<b>OUTLINE</b>		
DATE		<b>D9075</b>		
DATE		C 28812	20788-500	B
DATE		SCALE: 1:1		SHEET 1 OF 1

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