



## PRODUCT DATA SHEET

D8422

**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: 800 - 2300 MHz  
Power: 800 W CW  
Insertion Loss: 0.5 dB Max.  
VSWR: 1.25:1 Max.  
Phase Balance:  $\pm 5^\circ$  Max.  
Amplitude Balance: 0.25 dB Max.  
Isolation: 11 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: 3 lbs. 8 oz.  
Size: 5.5 x 4.25 x 2.25"

### Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2-J5)
D8422-10	N Female	N Female
D8422-20	7/16 Female	N Female
D8422-22	7/16 Female	SMA
D8422-296	7/16 Female	SC 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.



# WERLATONE

Model D8422

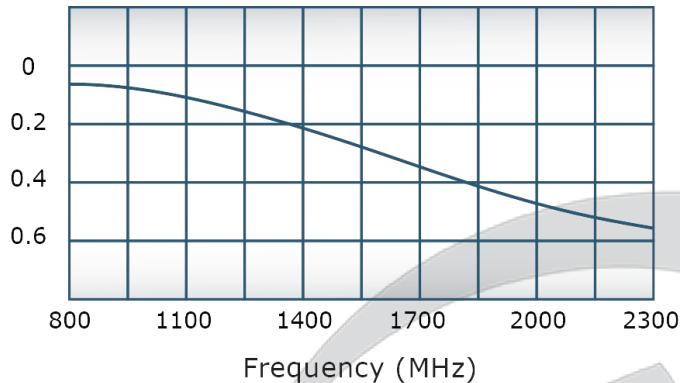
Combiners In-Phase Connectorized

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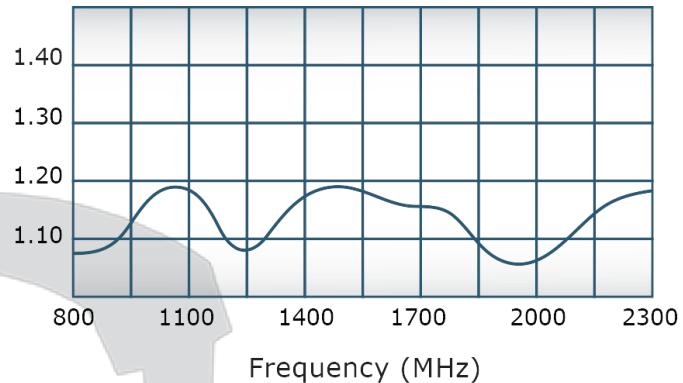
D8422

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

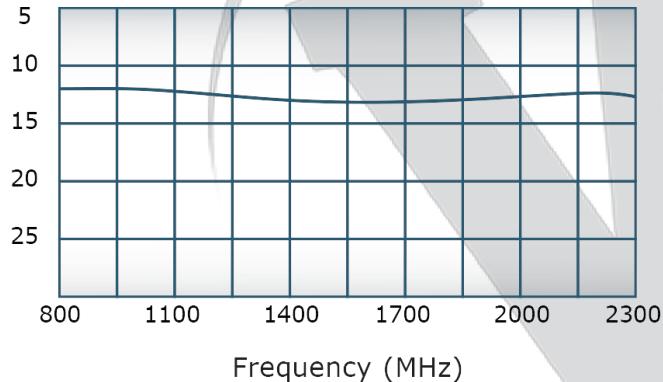
Insertion Loss:



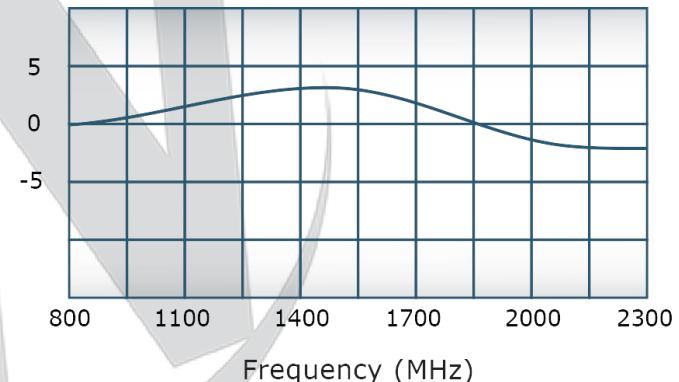
VSWR:



Isolation:



Phase Balance:



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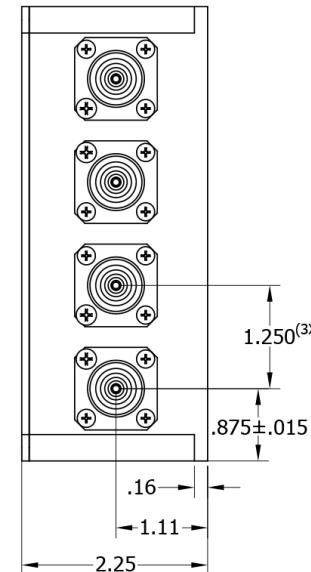
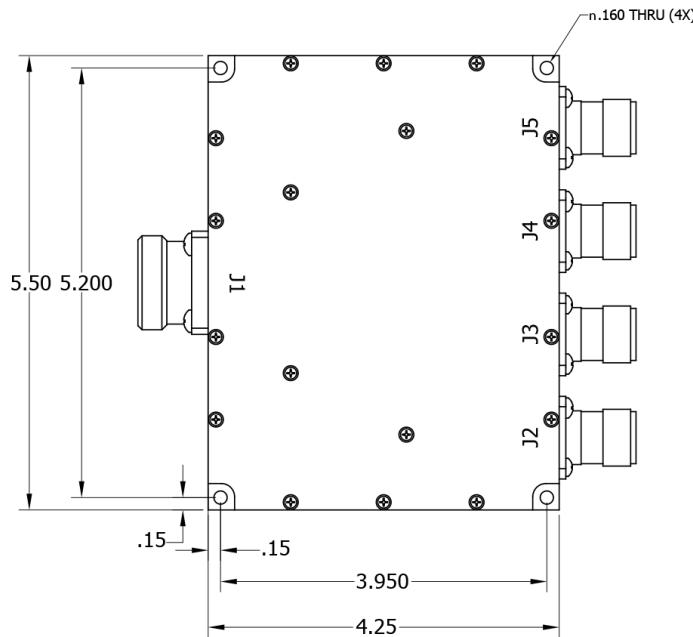
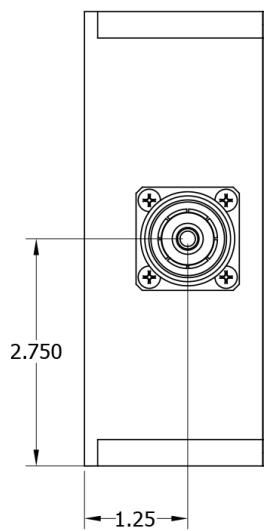
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY

DATE	REV	REVISION RECORD	AUTH	CHK	APPV
7/16/09	-	INITIAL RELEASE	GP	NH	BW
10/1/09	A	ECN 4970	GP	NH	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	W WERLATONE   SINCE 1965		2095 Route 22
INTERPRET DRAWING JAW MIL-STD-100	GP	7/17/2009		Brewster, NY 10509		
DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	2/1/2013			
ALL DIMENSIONS ARE IN INCHES	ENGR	DATE		TITLE		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	MFGR	DATE		D8422 4-Way Combiner/Divider		
TOLERANCES: ANGLES $\pm 2^\circ$ XXX $\pm .005$ XX $\pm .015$	QA	DATE				
HOLE TOLERANCES $.004/.001$	RLSE	DATE		SIZE	CAGE CODE	DWG NO
THIRD ANGLE PROJECTION				A	28812	20536-500
				REV		A
				SCALE	1:2	
				SHEET 1 OF 1		

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