



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:	± 5° 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.

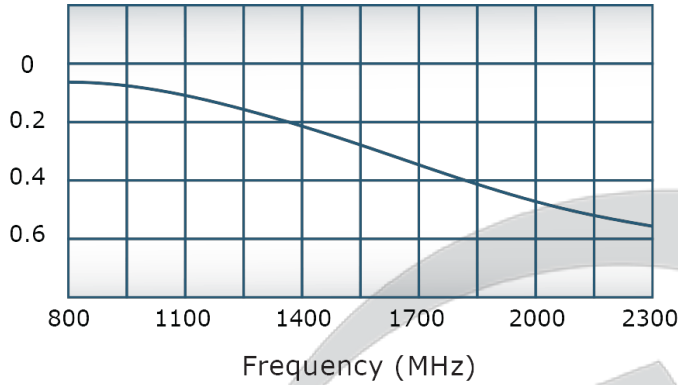
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

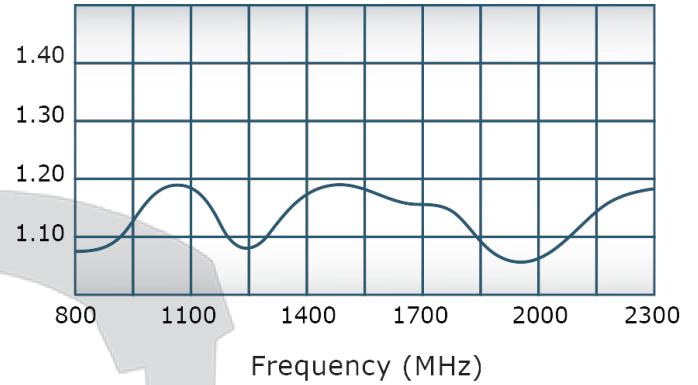


Performance Data (Specifications subject to change without notice):

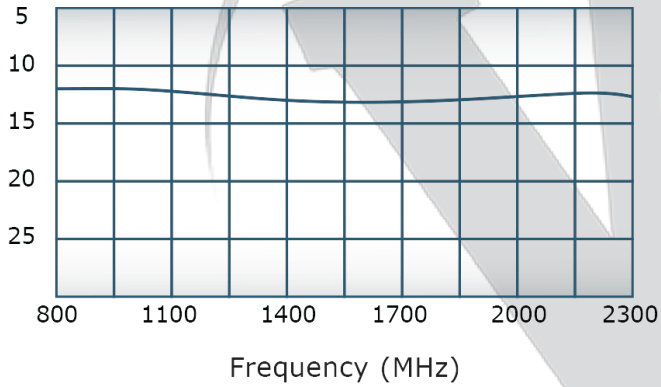
Insertion Loss:



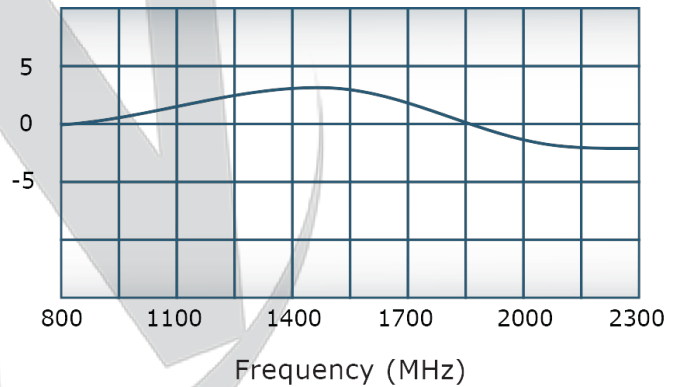
VSWR:



Isolation:



Phase Balance:



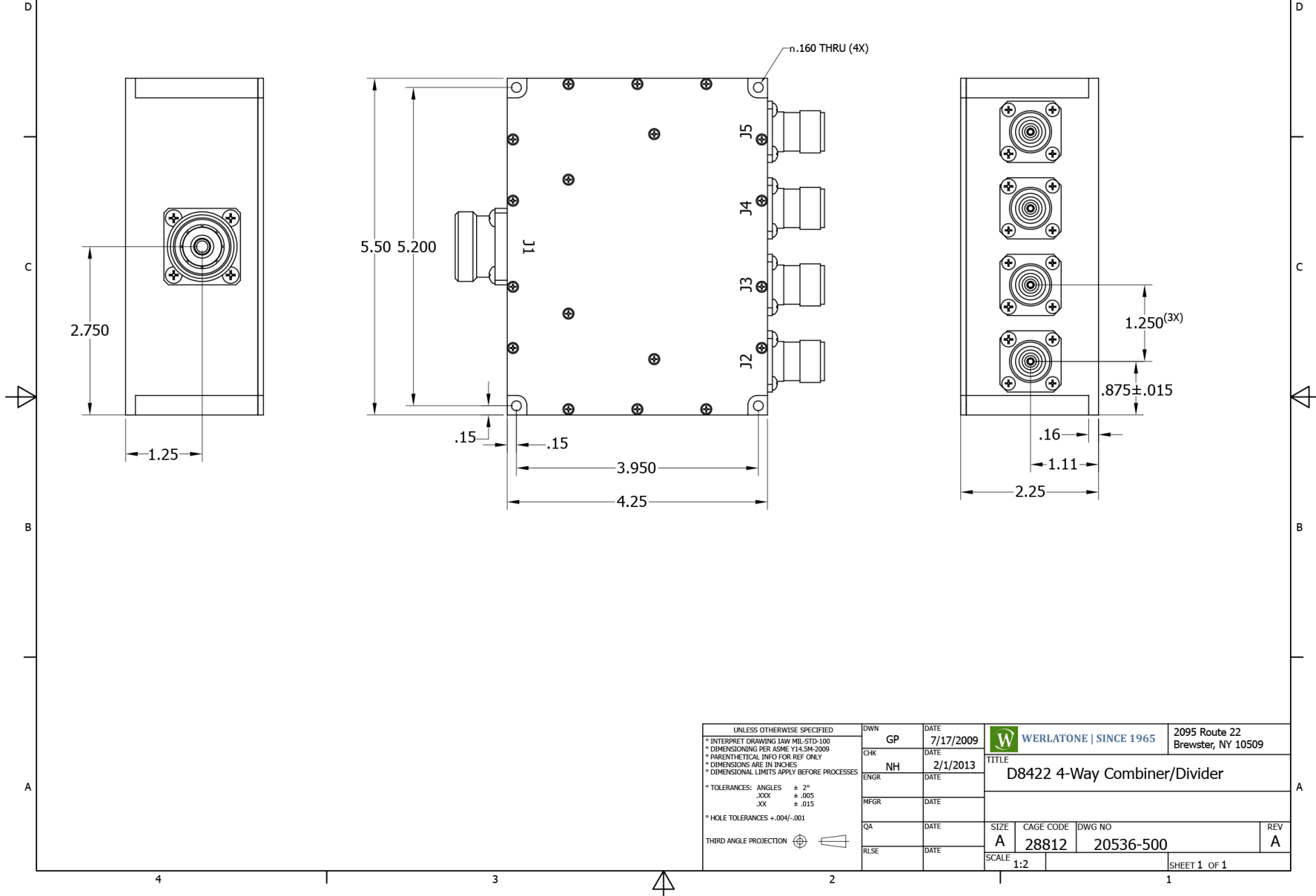
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

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

RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION
This document contains proprietary information which is the sole property of Werlatone, Inc.

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	GP	DATE	7/17/2009	WERLATONE SINCE 1965 2095 Route 22 Brewster, NY 10509
* INTERPRET DRAWING IAW MIL-STD-100		CHK	NH	DATE	2/1/2013	
* DIMENSIONING PER ASME Y14.5M-2009		ENGR		DATE		TITLE
* PARENTHEICAL INFO FOR REF ONLY		QA		DATE		D8422 4-Way Combiner/Divider
* DIMENSIONS ARE IN INCHES		RLSE		DATE		
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MFR		DATE		SIZE
* TOLERANCES: ANGLES ± 2°						A
.xxx ± .005						CAGE CODE
.xx ± .015						28812
* HOLE TOLERANCES ±.004/- .001						DWG NO
THIRD ANGLE PROJECTION						20536-500
						SCALE
						1:2
						SHEET 1 OF 1

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