



PRODUCT DATA SHEET

D8444

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: 25 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: $\pm 5^\circ$ Max.
Amplitude Balance: 0.2 dB Max.
Isolation: 20 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: 1/4 lb.
Size: 2.1 x 1.3 x 0.8"

Connector Configurations:

Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D9090-102RT	SMA Right Angle	SMA Right Angle	SMA Right Angle
D9090-102	SMA	SMA	SMA



WERLATONE

Model D8444

Combiners In-Phase Connectorized

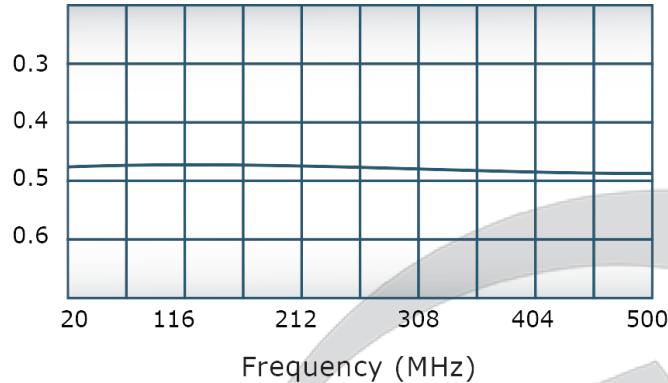


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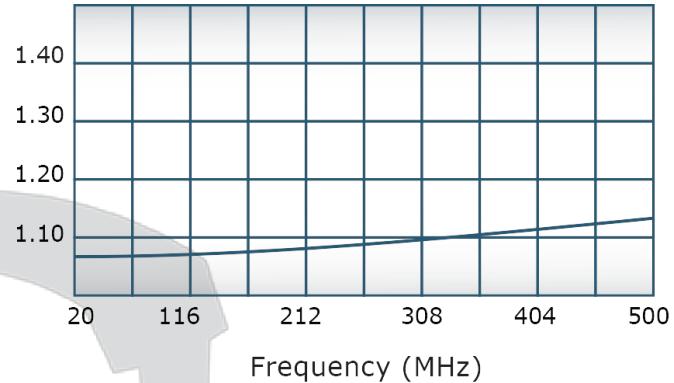
D8444

Performance Data (Specifications subject to change without notice):

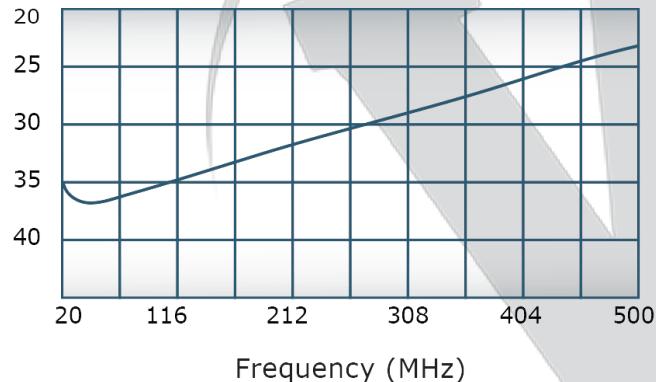
Insertion Loss:



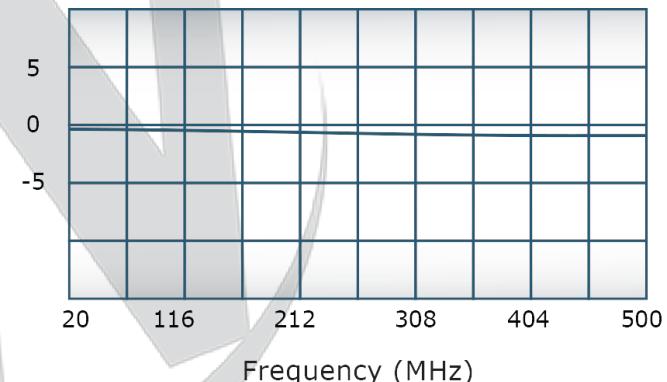
VSWR:



Isolation:



Phase Balance:



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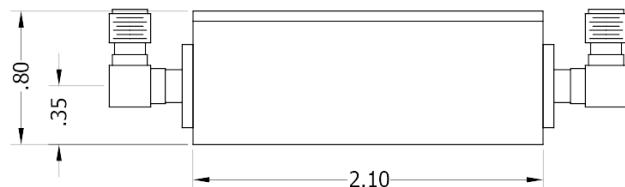
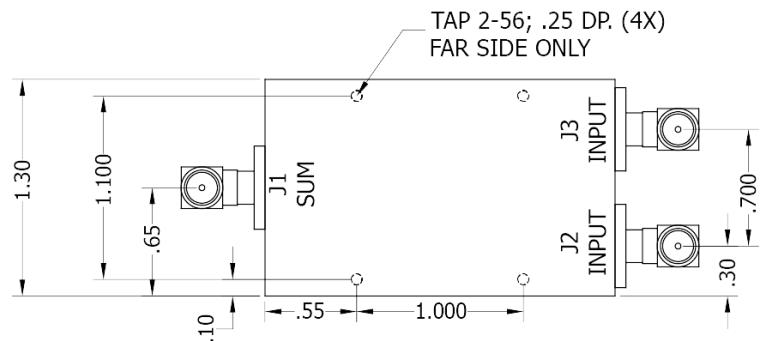
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY				
DATE	REV	REVISION RECORD	AUTH	CHK APPV
8/20/09	-	INITIAL RELEASE	NH	BW

NOTES:

1. MATERIAL: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER MIL- DTL- 5541F (YELLOW IRIDITE)
3. CONNECTORS: SMA RIGHT ANGLE (Female)



UNLESS OTHERWISE SPECIFIED		DWN	DATE	W WERLATONE SINCE 1965		2095 Route 22
* INTERPRET DRAWING AS MIL-STD-100		CHK	DATE	TITLE		Brewster, NY 10509
* DIMENSIONING PER ASME Y14.5M-2003		ENGR	DATE	OUTLINE		
* PARENTHETICAL INFO FOR REF. ONLY		MFGR	DATE	USED ON		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		ENGR	8/20/2009	D8444 - 102RT		
* TOLERANCES: ANGLES $\pm 2^\circ$		QA	DATE	SIZE	CAGE CODE	DWG NO
XXX $\pm .005$		BW	8/20/2009	28812		20540-500
XX $\pm .015$		RLSE	DATE	SCALE	REV	
* HOLE TOLERANCES $\pm .004-.001$				1:1		
* REMOVE ALL SWEEPS AND SWEEPS ON EDGES .01 R MAX						
* CONCENTRICITY MACHINED .024-.032 IN						
* MACHINE TO XL MISMATCH .003 MAX						
THIRD ANGLE PROJECTION						

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