



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

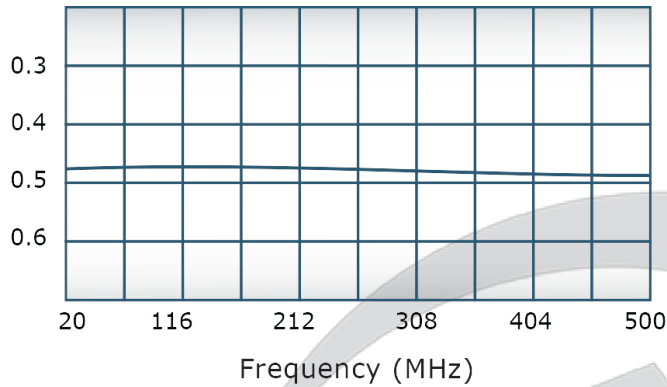


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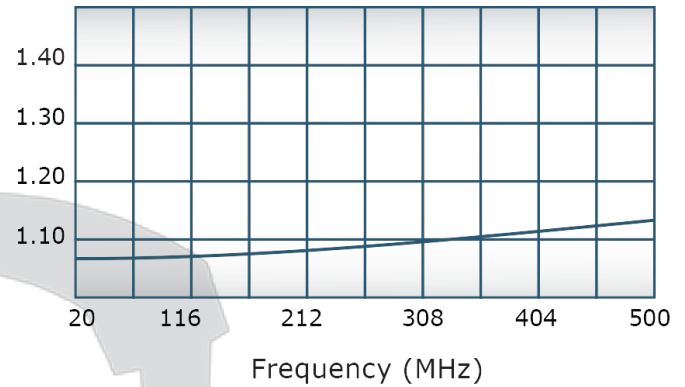
D8444

Performance Data (Specifications subject to change without notice):

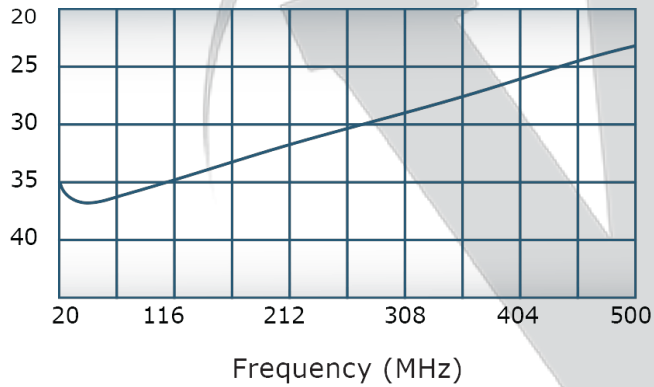
Insertion Loss:



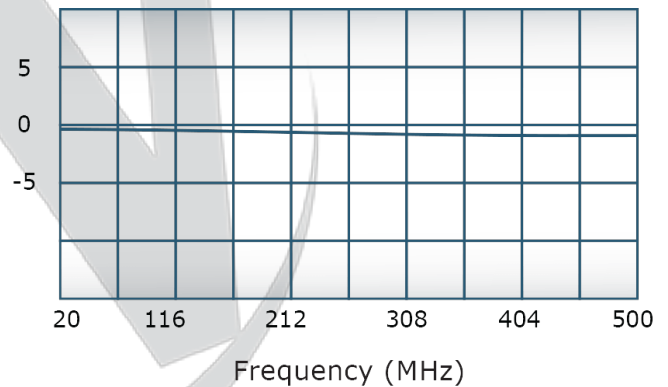
VSWR:



Isolation:



Phase Balance:



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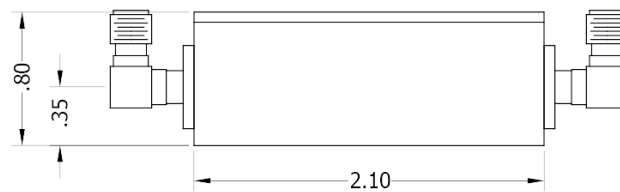
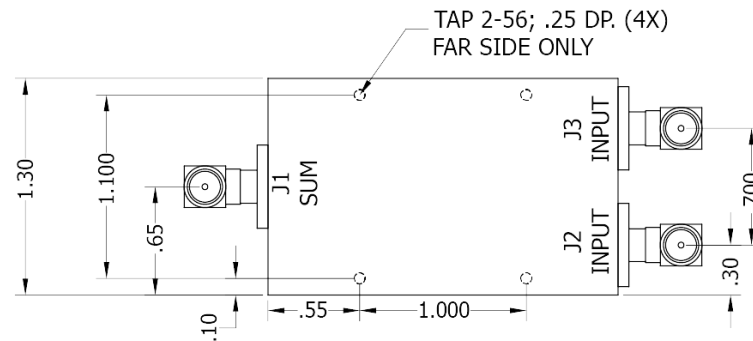
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
8/20/09	-	INITIAL RELEASE	NH	BW	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	 WERLATONE SINCE 1965		2095 Route 22 Brewster, NY 10509	
A	* INTERPRET DRAWING IAW MIL-STD-100			CHK	DATE	TITLE OUTLINE		D8444 - 102RT
	* DIMENSIONING PER ASME Y14.5M-2009			ENGR	DATE			
	* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES			NH	8/20/2009			
	* TOLERANCES: ANGLES ± 2°			MPGR	DATE			
	XXX ± .005			BW	8/20/2009			
XX ± .015			CA	DATE	SIZE	CAGE CODE	DWG NO	REV
* HOLE TOLERANCES ± .004/- .001			BW	8/20/2009	28812	20540-500		
* REMOVE ALL BURRS AND SHARP EDGES .01 R MAX			RLSE	DATE	SCALE		SHEET 1 OF 1	
* CONCENTRICITY MACHINED DIA1 .002 FIM					1:1			
* MACHINE TOOL MISMATCH .003 MAX								
THIRD ANGLE PROJECTION								

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