



## 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

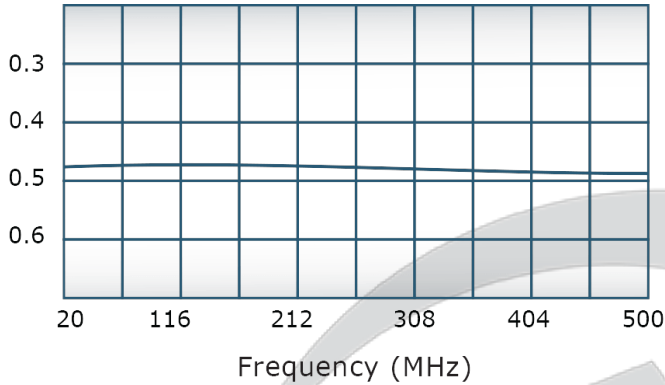


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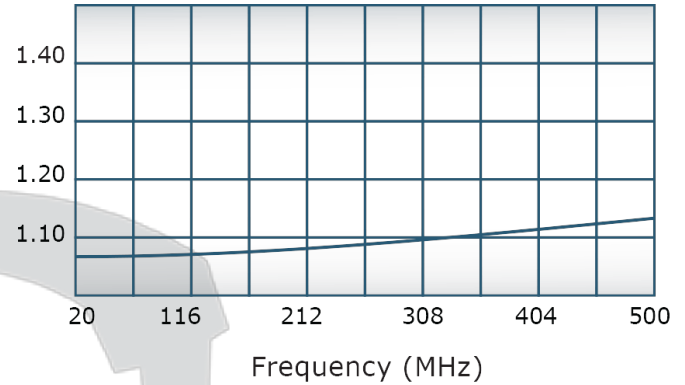
D8444

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

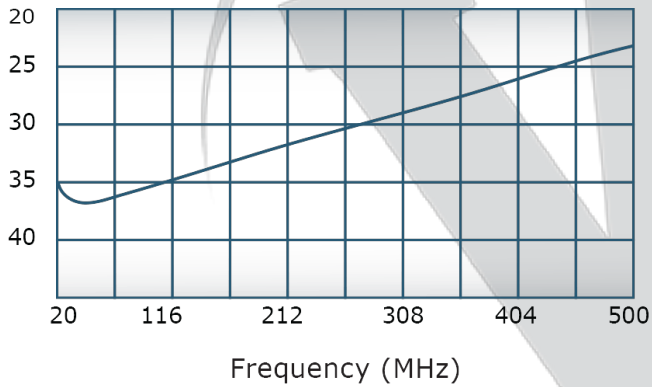
Insertion Loss:



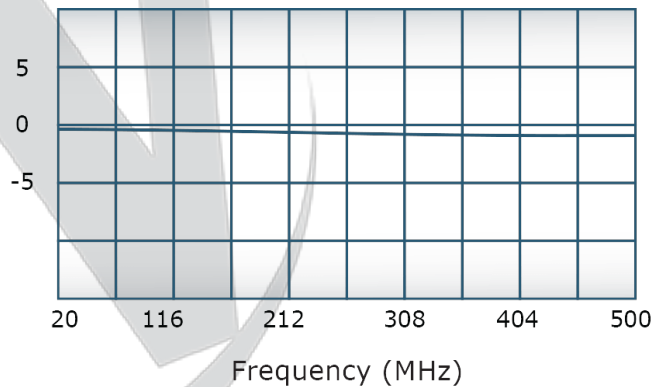
VSWR:



Isolation:



Phase Balance:



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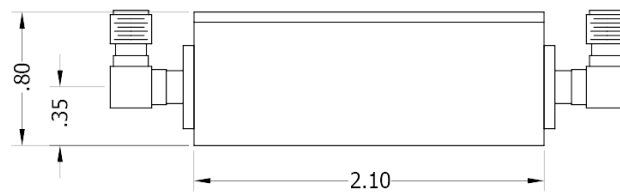
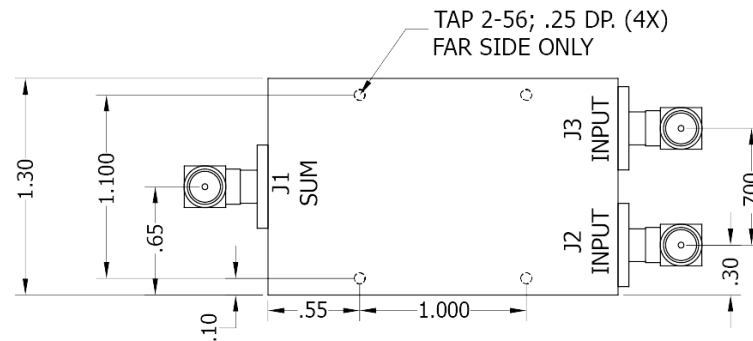
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



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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
	* DIMENSIONING PER ASME Y14.5M-2009	ENGR	DATE				
	* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	MPGR	DATE				
	* TOLERANCES: ANGLES ± 2° .XXX ± .005 .XX ± .015	CA	DATE				
	* HOLE TOLERANCES ± .004/- .001	RLSE	DATE				
* REMOVE ALL BURRS AND SHARP EDGES .01 R MAX		SIZE		CAGE CODE	DWG NO	REV	
* CONCENTRICITY MACHINED DIA1 .002 FIM		28812		20540-500			
* MACHINE TOOL MISMATCH .003 MAX		SCALE		1:1			
THIRD ANGLE PROJECTION				SHEET 1 OF 1			

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