



## 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

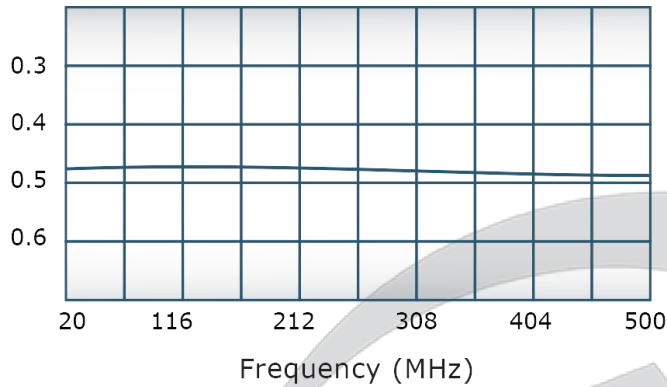


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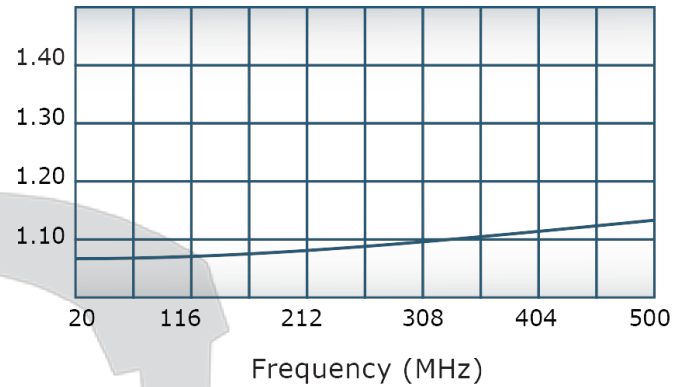
D8444

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

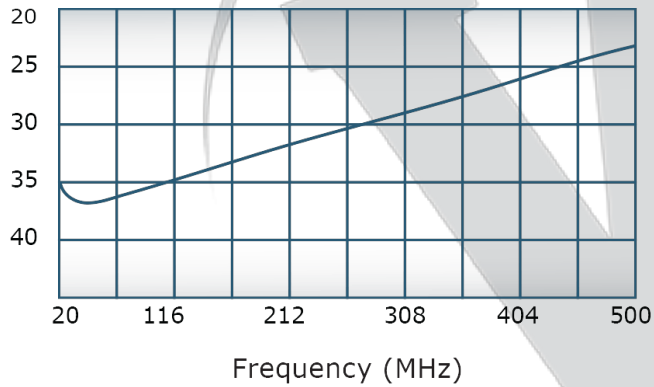
Insertion Loss:



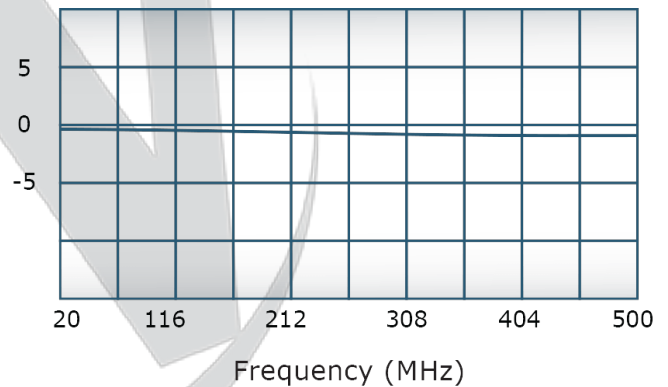
VSWR:



Isolation:



Phase Balance:

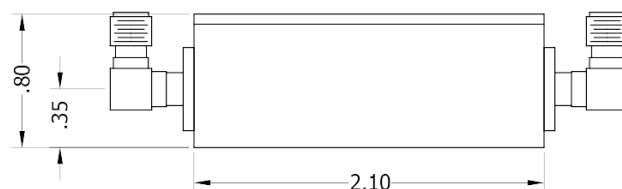
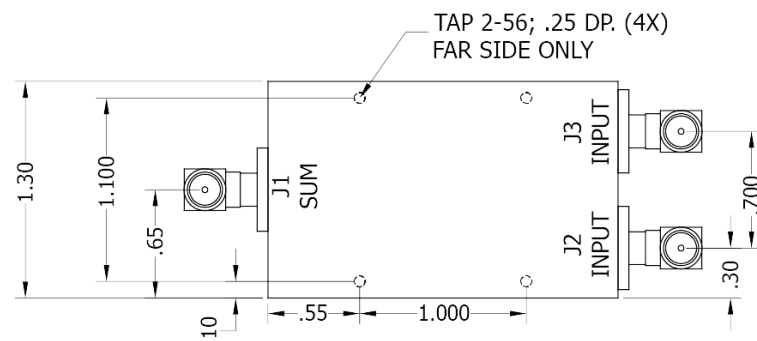




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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APP
8/20/09	-	INITIAL RELEASE	NH	BW	BW

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	 <b>WERLATONE   SINCE 1965</b>		2095 Route 22 Brewster, NY 10509	
* INTERPRET DRAWING SML MIL-STD-100 * DIMENSIONS/INCH PER ASME Y14.5M-2009 * PARENT/CHILD INFO FOR REF ONLY * DIMENSIONS IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		CHK	DATE	TITLE	<b>OUTLINE</b>  <b>D8444 - 102RT</b>		
* TOLERANCES: ANGLES ± 2° .XXX ± .005 .XX ± .015		ENGR	DATE	USED ON			
* HOLE TOLERANCES = .004/- .001 * REMOVE ALL BURRS AND SHARP EDGES .01 R MAX * CONCENTRICITY MAX HATCH DIA .002 FIM * MACHINE TOLER. HATCH .003 MAX		NH	8/20/2009	BW			
		MFR	DATE	SIZE	CAGE CODE	DWG NO	REV
		BW	8/20/2009	28812		20540-500	
		QA	DATE	SCALE	SHEET 1 OF 1		
		BW	8/20/2009	1:1			
THIRD ANGLE PROJECTION 		RLSE	DATE				

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