
**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:**

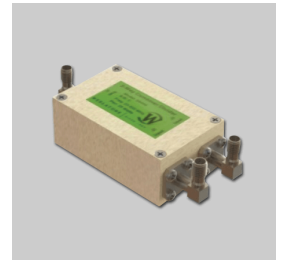
Frequency: 20 - 500 MHz  
 Power: 25 W CW  
 Insertion Loss: 0.5 dB Max.  
 VSWR: 1.30:1 Max.  
 Phase Balance:  $\pm 5^\circ$  Max.  
 Amplitude Balance: 0.2 dB Max.  
 Isolation: 20 dB Min.

**Mechanical Specifications:**

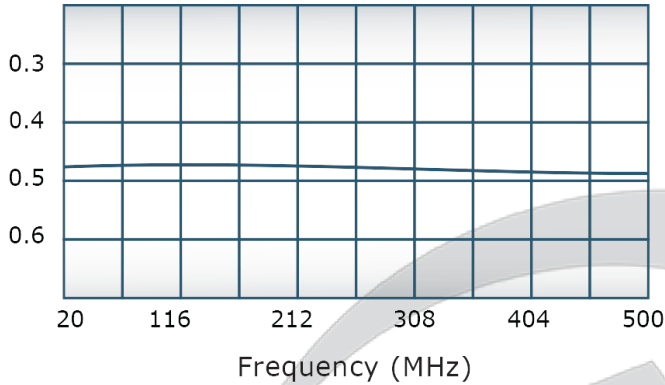
Type: Connectorized  
 Material: Aluminum 6061-T6  
 Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available  
 Operating Temperature: -55°C to +75°C  
 Storage Temperature: -60°C to +85°C  
 Weight: 1/4 lb.  
 Size: 2.1 x 1.3 x 0.8"

**Connector Configurations:**

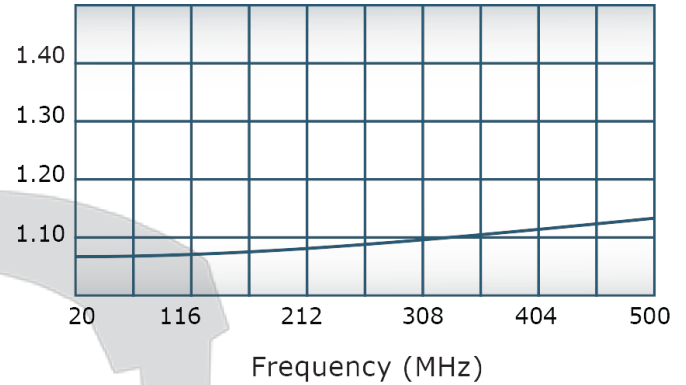
Model	Sum Port (J1)	Input/Output (J2)	Input/Output (J3)
D9090-102RT	SMA Right Angle	SMA Right Angle	SMA Right Angle
D9090-102	SMA	SMA	SMA


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

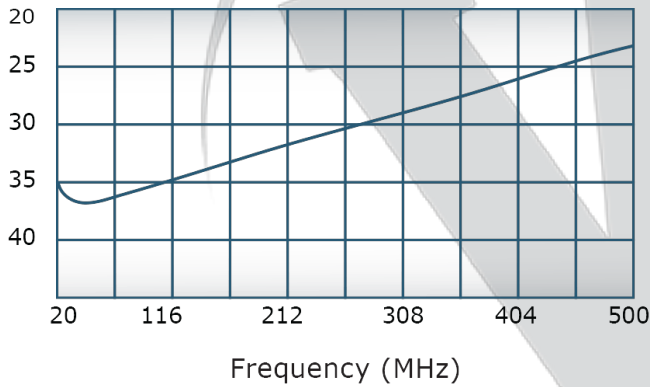
Insertion Loss:



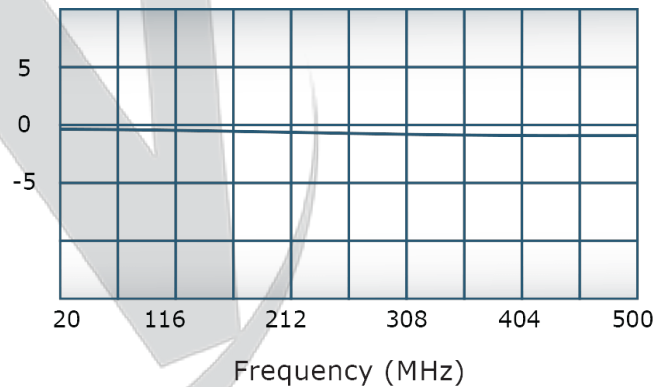
VSWR:



Isolation:



Phase Balance:

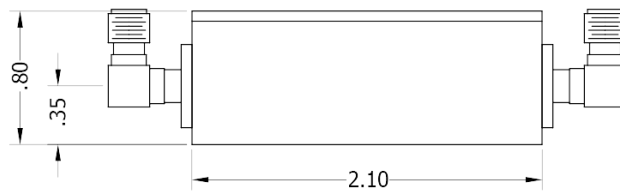
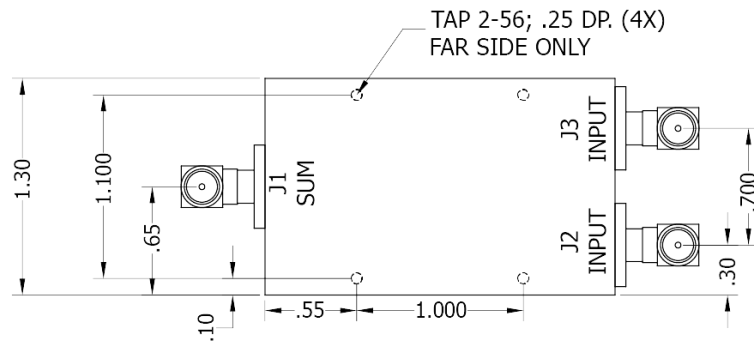


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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
8/20/09	-	INITIAL RELEASE	NH	BW	BW

## 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	<b>WERLATONE   SINCE 1965</b> 2095 Route 22 Brewster, NY 10509
* INTERPRET DRAWING IAW MIL-STD-100 * DIMENSIONING PER ASME Y14.5M-2009 * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * DIMENSIONS ARE IN INCHES * TOLERANCES: ANGLES = 2° XXX = .005 .XX = .015 * HOLE TOLERANCES = .004/- .001 * REMOVE ALL BURRS AND SHARP EDGES .01 R MAX * CONCENTRICITY MACHINED DIA1 .002 FIM * MACHINE TOOL MISMATCH .003 MAX THIRD ANGLE PROJECTION		CHK	DATE	
		ENGR	DATE	TITLE
		NH	8/20/2009	OUTLINE
		MFR	DATE	USED ON
		BW	8/20/2009	D8444 - 102RT
		QA	DATE	SIZE
		BW	8/20/2009	28812
		RLSE	DATE	DWG NO
				20540-500
				REV
				SCALE
				1:1
				SHEET 1 OF 1

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