
**PRODUCT DATA SHEET**
**H9395R**

**Werlatone®** High Power 180° RF Hybrid Combiners/Dividers balance traditional technologies with disruptive microwave techniques. The outcome is a microwave component which provides an order of magnitude improvement over current capabilities. Our newest line of high power, patented 180° RF Hybrid Combiners/Dividers provides an incredible 5:1 bandwidth, while exhibiting exceptionally low loss and superior port-to-port isolation.

**Features:**

High Power      Wide Bandwidths      Small Size      Excellent Amplitude Balance

**Electrical Specifications:**

Frequency:            350 - 1000 MHz  
 Power:                250 W CW  
 Insertion Loss:       0.3 dB Max.  
 VSWR:                1.30:1 Max.  
 Phase Balance:       180° ± 7° Max.  
 Amplitude Balance: ± 0.4 dB Max.  
 Isolation:             20 dB Min.

**Mechanical Specifications:**

Type:                    Connectorized  
 Material:               Aluminum 6061-T6  
 Surface Finish:       Chem. Film Per MIL-DTL-5541F Type II  
                                  Class 3 (RoHS Compliant)  
 Operating Temperature: -55°C to +75°C  
 Storage Temperature: -60°C to +85°C  
 Size:                    3.5 x 4.28 x 1.06"

**Connector Configurations:**

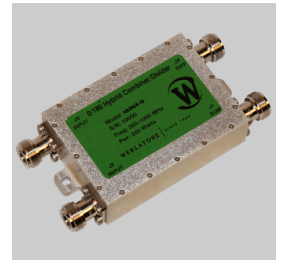
Model	Sum Port (J1)	Inputs/Outputs (J2,J3)	Diff. Port (J4)
H9395R-10	N Female	N Female	N Female

"R" references a fully RoHS Compliant Design

**Werlatone's** standard line of High Power 180° RF Hybrid Combiners/Dividers covers multiple octaves within a microwave device. Low frequency 180° Hybrid Combiner/Dividers employ proprietary ferrite transmission line techniques, similar to our 0° Combiners/Dividers. Insertion loss in both sum and difference ports is minimal, allowing the hybrid to handle high power over its frequency range. Custom requirements are welcome.

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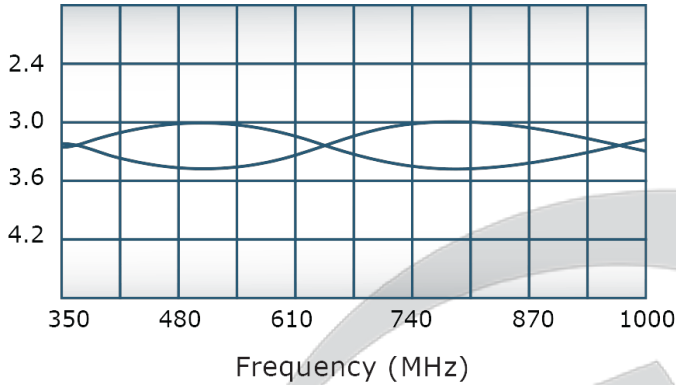


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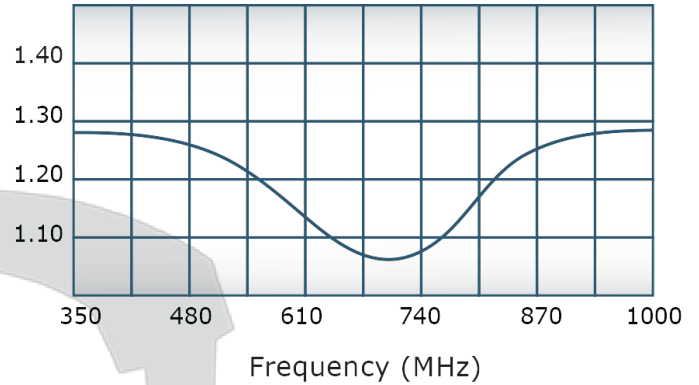
H9395R

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

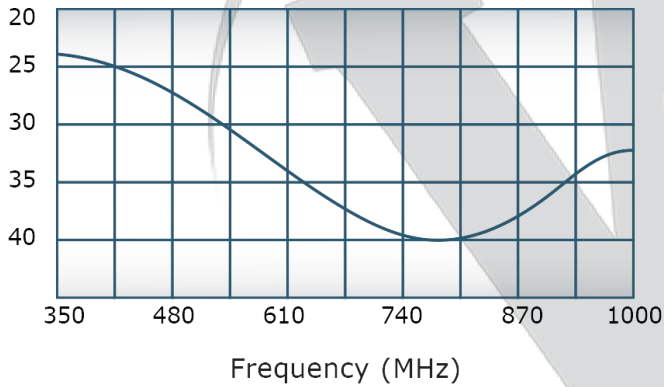
Coupling:



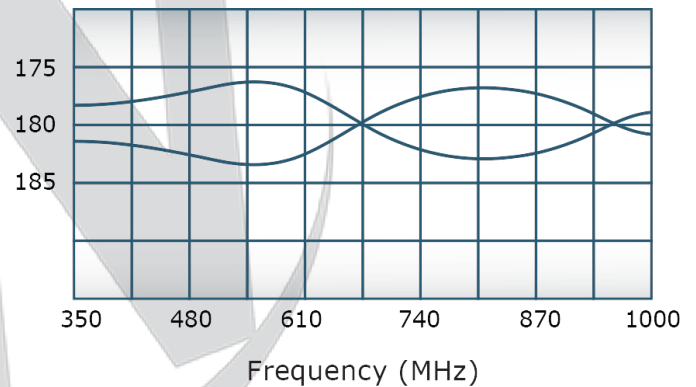
VSWR:



Isolation:



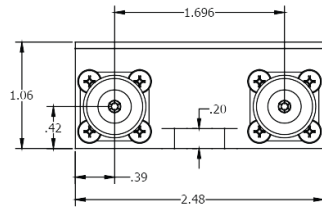
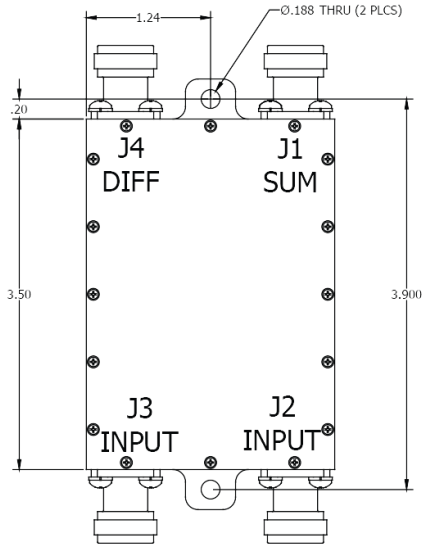
Phase Balance:



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**NOTES: UNLESS OTHERWISE SPECIFIED**

- MAT'L: ALUMINUM 6061-T6
- FINISH: CHEM FILM PER-DTL-5541F TYPE 2 CLASS 3 (RoHS COMPLIANT)
- CONNECTORS: N (FEMALE)

	A	B	C	D
1	REVISION HISTORY			
2	REV	REVISION RECORD	DATE	APPROVED
3	-	INITIAL RLS	5/23/2012	BW
4				
5				
6				

UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE   SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
<ul style="list-style-type: none"> <li>INTERPRET DRAWING IAW MIL-STD-100</li> <li>DIMENSIONING PER ASME Y14.5M-2009</li> <li>PARENTHESES INFO FOR REF ONLY</li> <li>DIMENSIONS ARE IN INCHES</li> <li>DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> <li>TOLERANCES: ANGLES ± 2°</li> <li>3 PL ± .005</li> <li>2 PL ± .015</li> </ul>	NH	05/23/12		
	CHK	DATE		
	BW	05/23/12		
	ENGR	DATE		
	BW	05/23/12		
	MFGR	DATE		
	QA	DATE		
	RLSE	DATE		
THIRD ANGLE PROJECTION		SIZE	CAGE CODE	DWG NO
		A	28812	20904-500
		SCALE	SHEET 1 OF 1	
		1:2		

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