



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: $180^\circ \pm 7^\circ$ Max.
 Amplitude Balance: ± 0.4 dB Max.
 Isolation: 20 dB Min.

Mechanical Specifications:

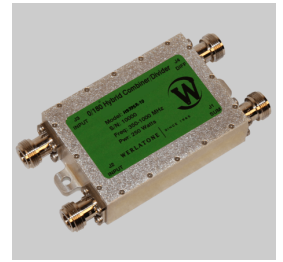
Type: Connectorized
 Material: Aluminum 6061-T6
 Surface Finish: Chem. Film Per MIL-DTL-5541F Type II Class 3 (RoHS Compliant)
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Size: 3.5 x 4.28 x 1.06"

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.

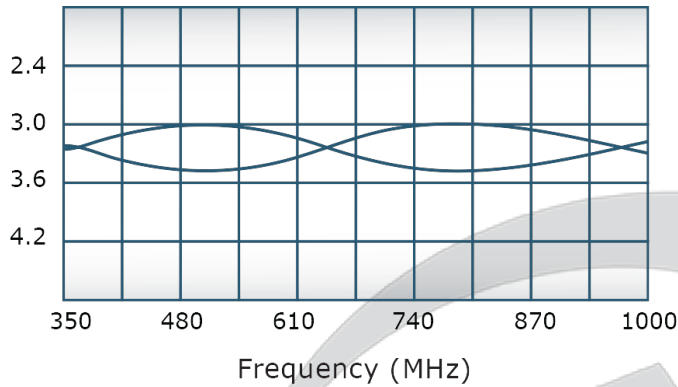


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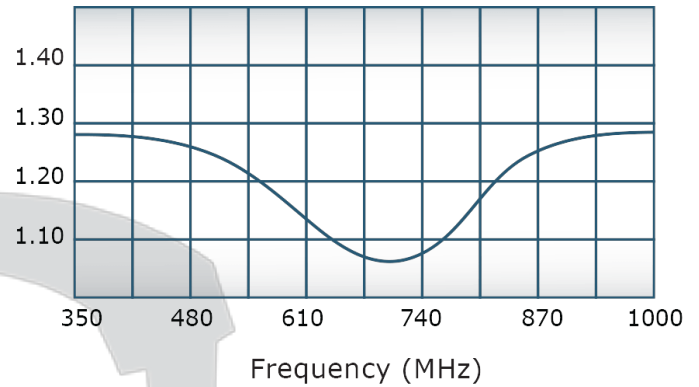
H9395R

Performance Data (Specifications subject to change without notice):

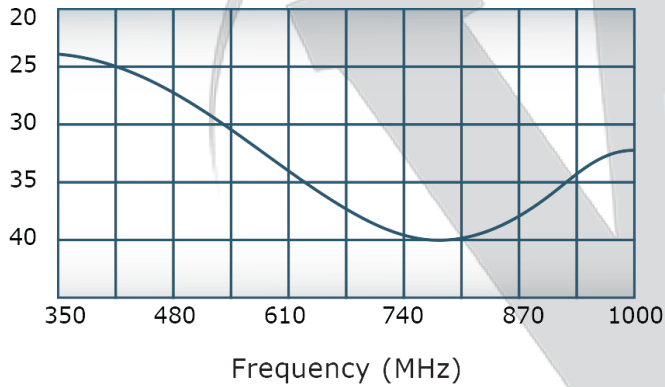
Coupling:



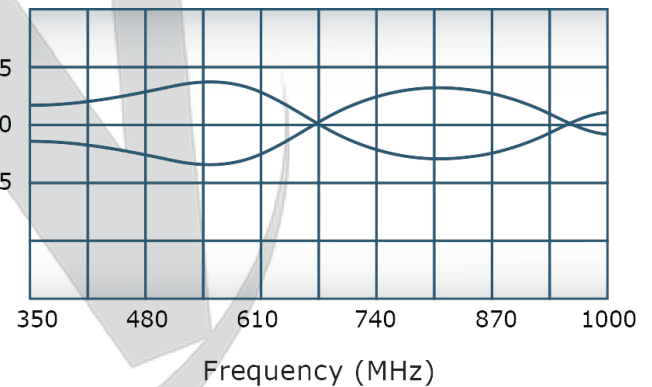
VSWR:



Isolation:



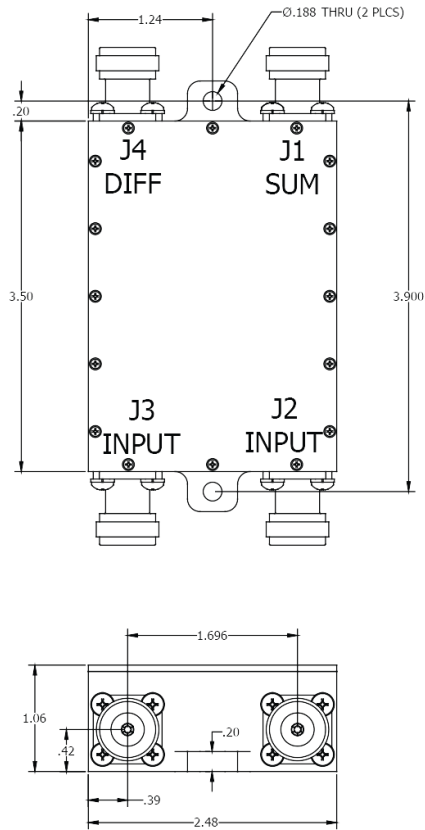
Phase Balance:



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NOTES: UNLESS OTHERWISE SPECIFIED

1. MAT'L: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER-DTL-5541F TYPE 2 CLASS 3 (RoHS COMPLIANT)
3. 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	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
<ul style="list-style-type: none"> • INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHEetical INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 2 PL ± .005 2 PL ± .015 		NH	05/23/12	
THIRD ANGLE PROJECTION		CHK	DATE	OUTLINE TITLE SIZE A CAGE CODE 28812 DWG NO 20904-500 SCALE 1:2 SHEET 1 OF 1
		ENGR	DATE	
		BW	05/23/12	REV -
		MFGR	DATE	
		QA	DATE	
		RLSE	DATE	

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