



PRODUCT DATA SHEET

H9395

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.

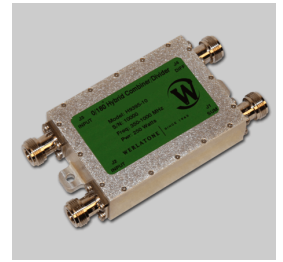
Mechanical Specifications:

Type: Connectorized
 Material: Aluminum 6061-T6
 Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
 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)
H9395-10	N Female	N Female	N Female

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.

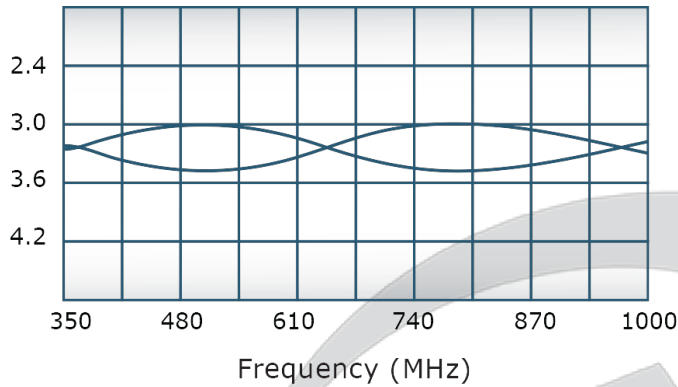


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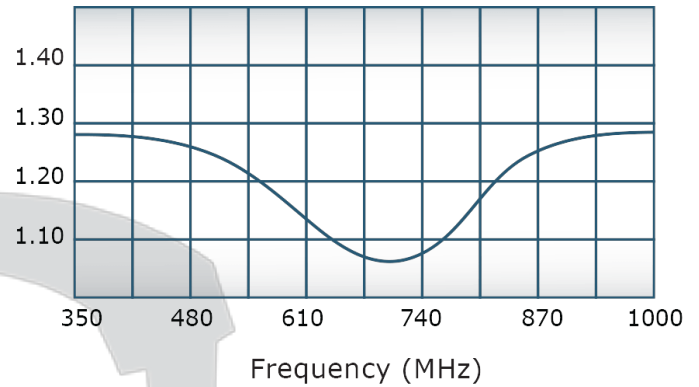
H9395

Performance Data (Specifications subject to change without notice):

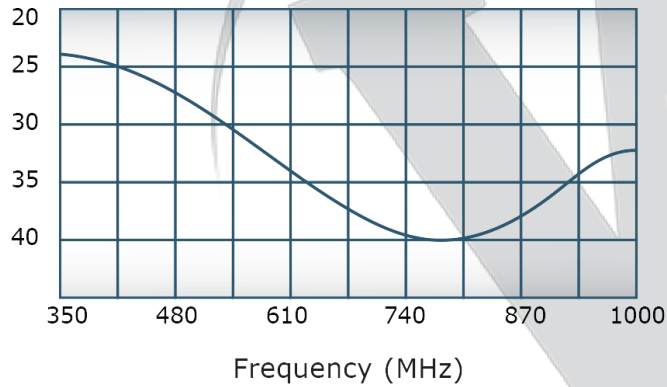
Coupling:



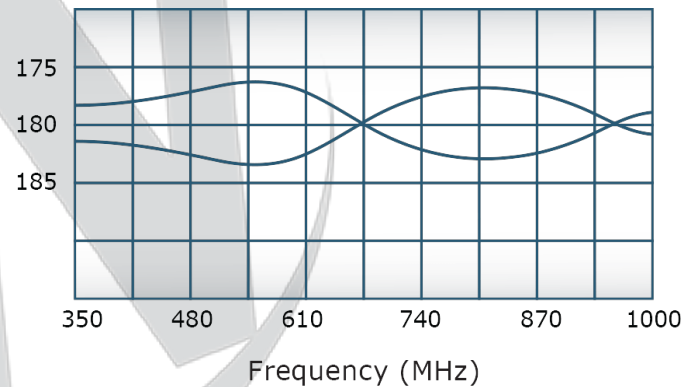
VSWR:



Isolation:



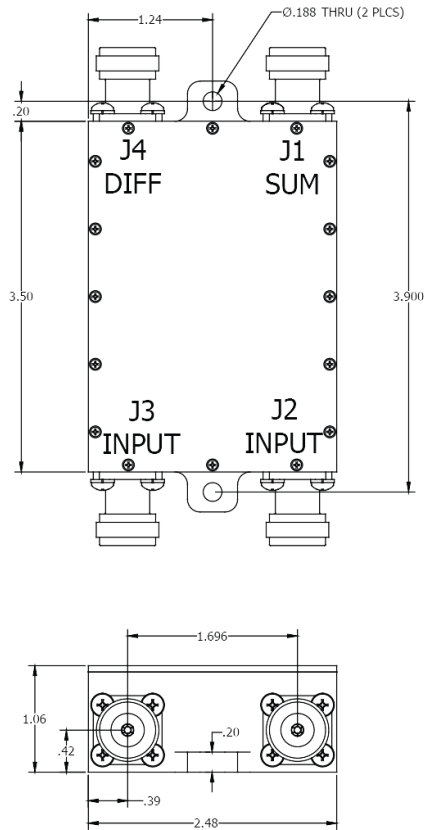
Phase Balance:



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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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NOTES: UNLESS OTHERWISE SPECIFIED

1. MAT'L: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER-DTL-5541F TYPE 1 CLASS 3 (YELLOW IRIDITE)
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			
• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		NH	05/23/12							
• TOLERANCES: ANGLES ± 2° 3 PL ± .005 2 PL ± .015		CHK	DATE	TITLE						
		BW	05/23/12							
		ENGR	DATE							
		BW	05/23/12							
		MFR	DATE	OUTLINE		SIZE A CAGE CODE 28812 DWG NO 20904-500			REV -	
		QA	DATE							
		RLSE	DATE							
THIRD ANGLE PROJECTION 				SCALE 1:2	SHEET 1 OF 1					

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