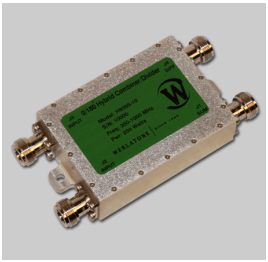
WERLATONE

Model H9395
180° Hybrids Connectorized



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° ± 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 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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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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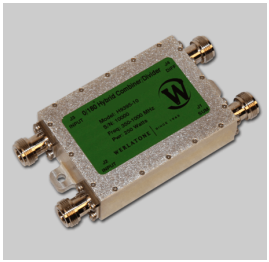

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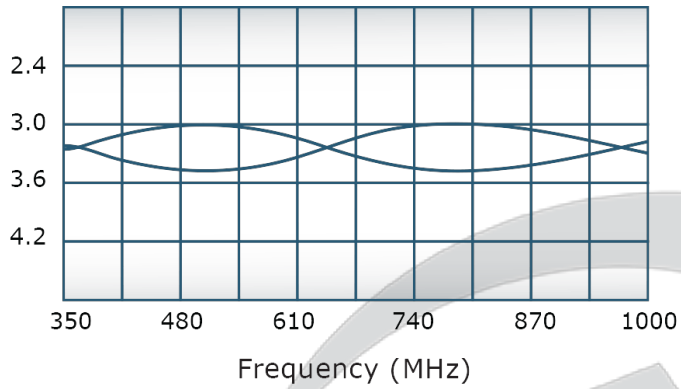
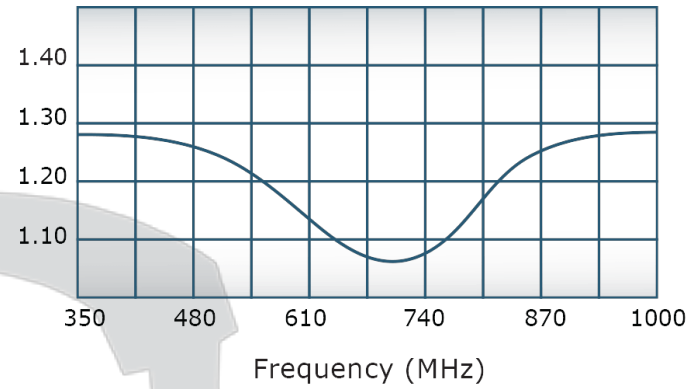
Performance Data (Specifications subject to change without notice):

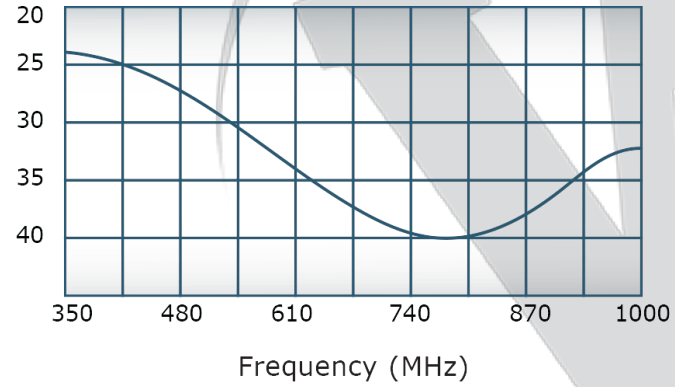
Coupling:



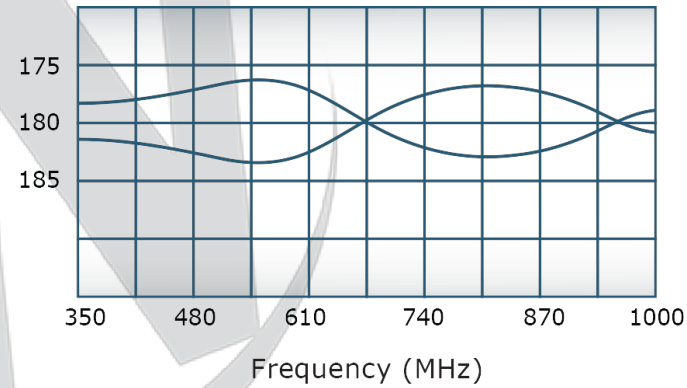
VSWR:



Isolation:



Phase Balance:



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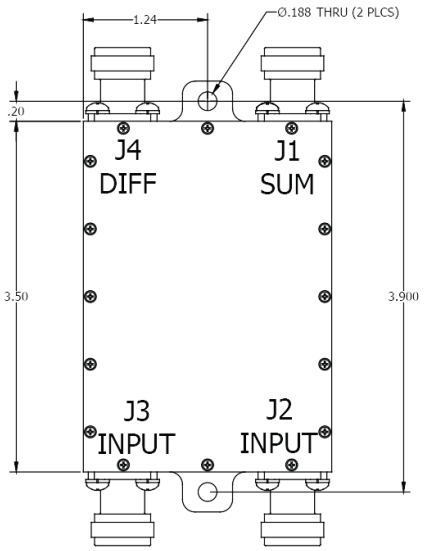
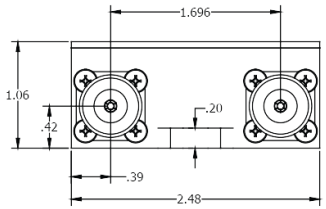
	A	B	C	D
1	REVISION HISTORY			
2	REV	REVISION RECORD	DATE	APPROVED
3	-	INITIAL RLS	5/23/2012	BW
4				
5				
6				





NOTES: UNLESS OTHERWISE SPECIFIED

1. MAT'L: ALUMINUM 6061-T6
2. FINISH: CHEM FILM PER-DTL-5541F TYPE 1 CLASS 3 (YELLLOW IRIDITE)
3. CONNECTORS: N (FEMALE)

UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARENTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- TOLERANCES: ANGLES ± 2°
  3 PL ± .005
  2 PL ± .015

THIRD ANGLE PROJECTION

		DATE
DWN	NH	05/23/12
CHK	BW	05/23/12
ENGR	BW	05/23/12
MFGR		DATE
QA		DATE
RLSE		DATE

WERLATONE | SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE
OUTLINE

SIZE	CAGE CODE	DWG NO	REV
A	28812	20904-500	-

SCALE 1:2 SHEET 1 OF 1

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