


**PRODUCT DATA SHEET**
**H7492**

**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:	500 - 2500 MHz
Power:	200 W CW
Insertion Loss:	0.45 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	180° ± 8° 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
Weight:	12 oz.
Size:	4.0 x 2.2 x 0.85"

**Connector Configurations:**

<b>Model</b>	<b>Sum Port (J1)</b>	<b>Diff. Port (J2)</b>	<b>0°, 180° (J3, J4)</b>
H7492-10	N Female	N Female	N Female
H7492-12	N Female	SMA	SMA
H7492-102	SMA	SMA	SMA

**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.

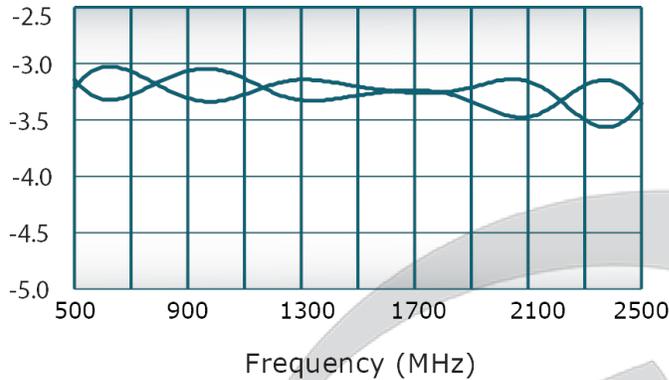


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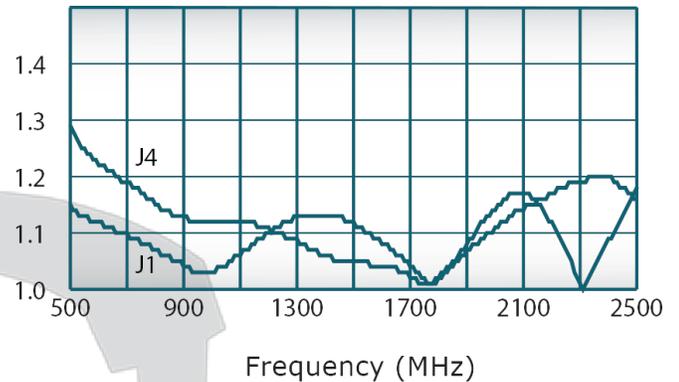
H7492

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

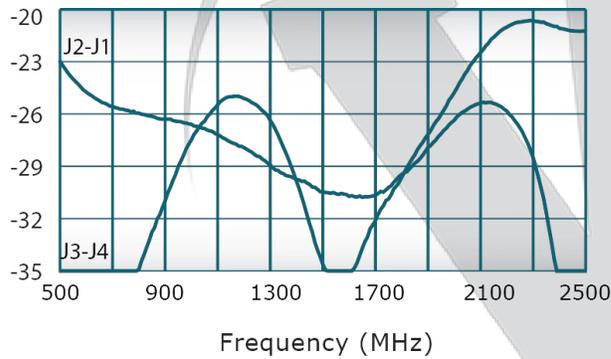
Coupling:



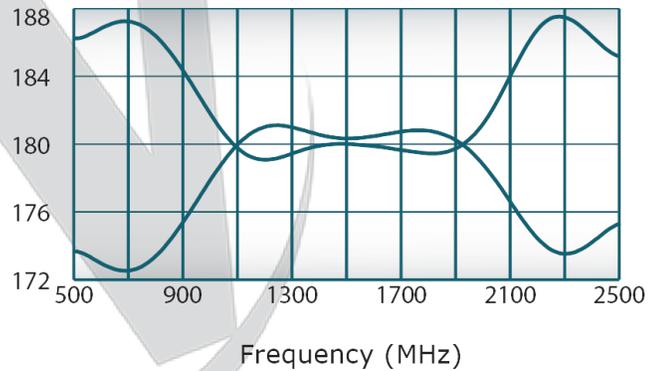
VSWR:



Isolation:



Phase Balance:



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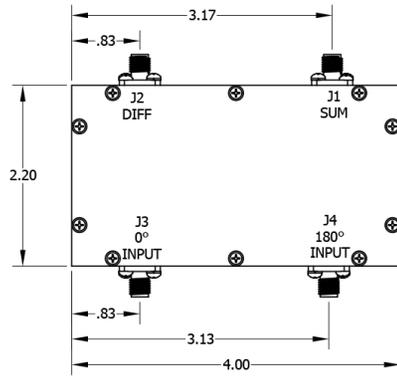
Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

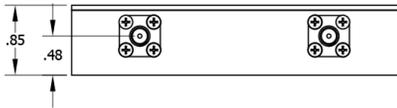
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
01/26/2010	A	ECN # 5061	NH	BW	BW

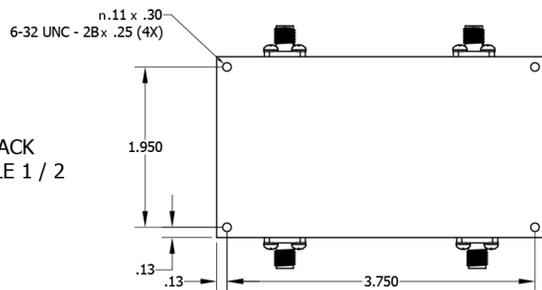
FRONT  
SCALE 1 / 2



BOTTOM  
SCALE 1 / 2



BACK  
SCALE 1 / 2



<small>UNLESS OTHERWISE SPECIFIED</small> * INTERPRET DRAWING IAW MIL-STD-100 * DIMENSIONING PER ASME Y14.5M-2009 * PARENTHEICAL INFO FOR REF ONLY * DIMENSIONS ARE IN INCHES * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * TOLERANCES: ANGLES    ± 2° .XXX    ± .005 .XX     ± .015 THIRD ANGLE PROJECTION	DWN	DATE	<b>WERLATONE   SINCE 1965</b>		2095 Route 22 Brewster, NY 10509
	NH	1/26/2010	TITLE		
	CHK	DATE	OUTLINE		
	BW	1/26/2010	USED ON		
	ENGR	DATE	SIZE	CAGE CODE	DWG NO
BW	1/26/2010	A	28812	20149-501	A
MFR	DATE	SCALE	SHEET 1 OF 1		
QA	DATE				
RLSE	DATE				

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