



## 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:

Model	Sum Port (J1)	Diff. Port (J2)	0°, 180° (J3, J4)
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.

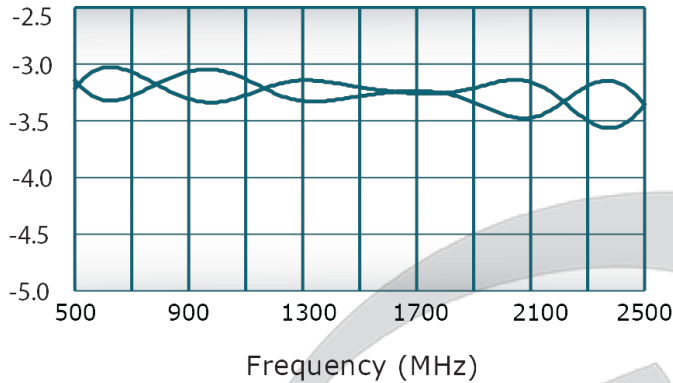
**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc.

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

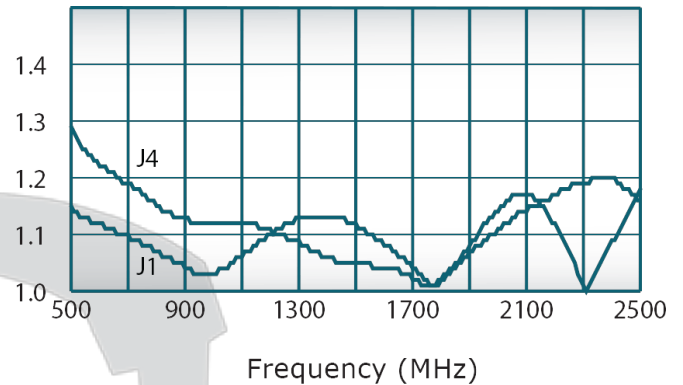


## Performance Data (Specifications subject to change without notice):

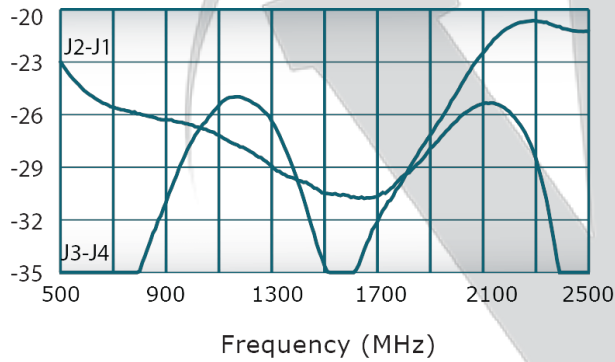
Coupling:



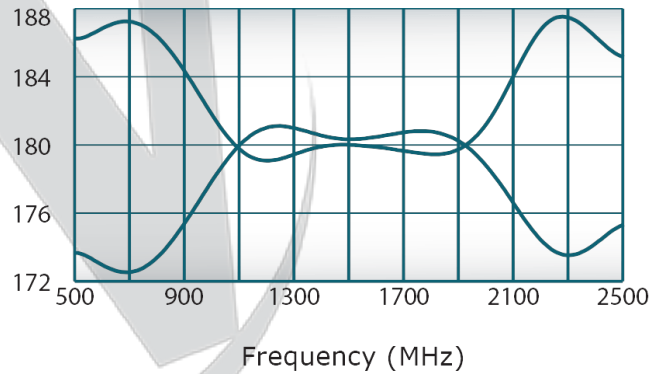
VSWR:



Isolation:



Phase Balance:



**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of

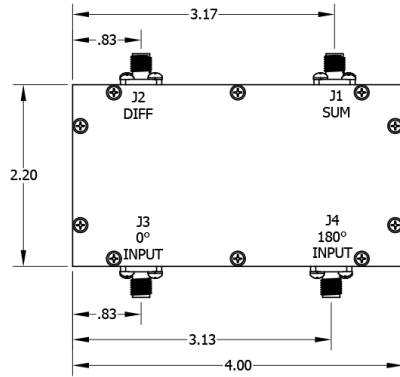
Werlatone, Inc.

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

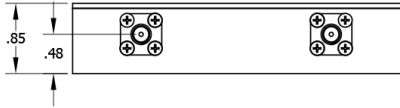
RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION  
This document contains proprietary information which is the sole property of Werlatone, Inc.

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

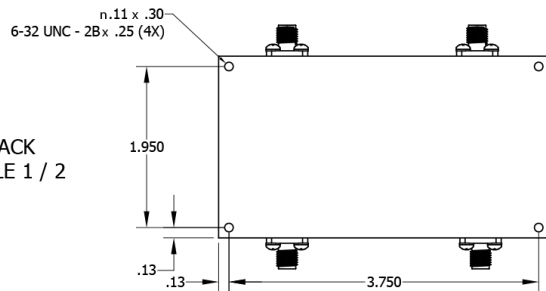
FRONT SCALE 1 / 2



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
MFRG	DATE	SCALE	SHEET 1 OF 1		
QA	DATE				
RLSE	DATE				

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of 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