


**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.

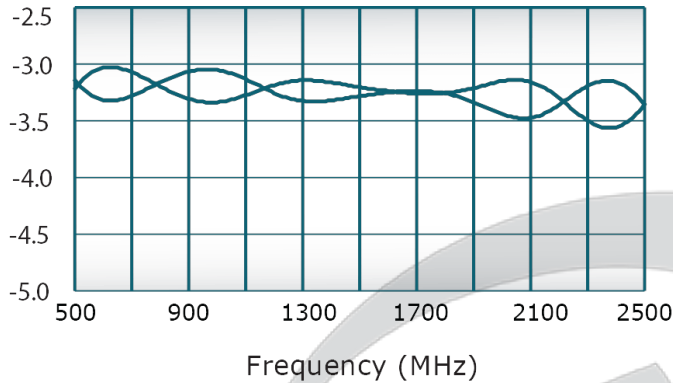
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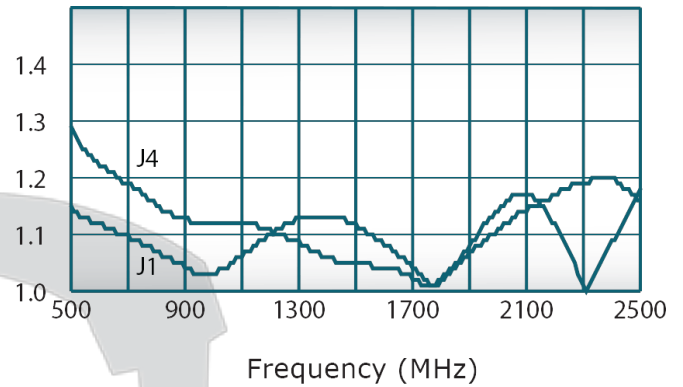


## Performance Data (Specifications subject to change without notice):

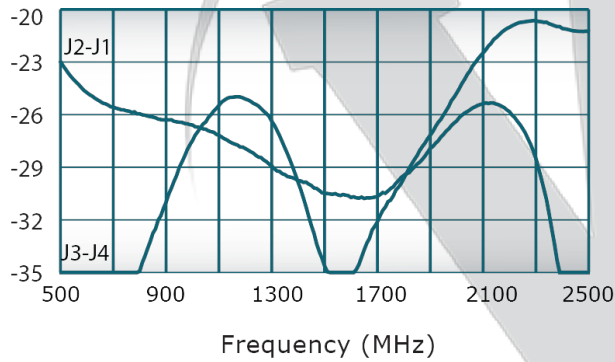
Coupling:



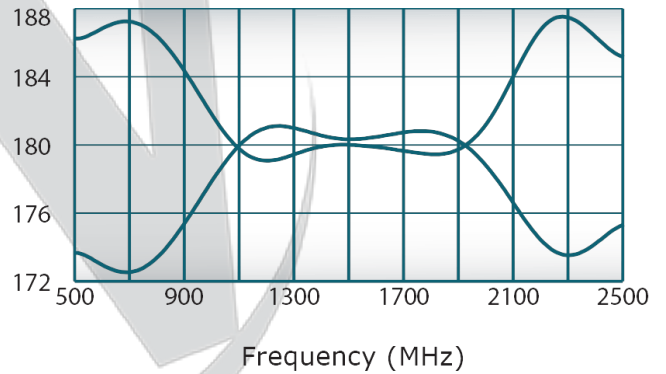
VSWR:



Isolation:



Phase Balance:



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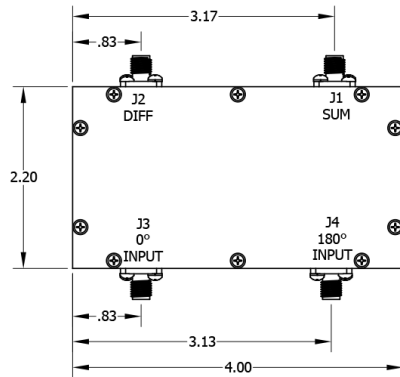
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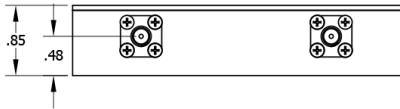
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
01/26/2010	A	ECN # 5061	NH	BW	BW

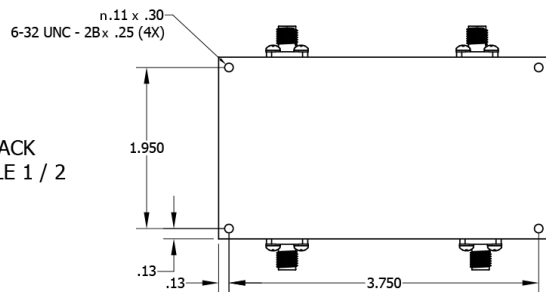
FRONT SCALE 1 / 2



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	WERLATONE   SINCE 1965		2095 Route 22 Brewster, NY 10509
	CHK	DATE	TITLE		
	ENGR	DATE	OUTLINE		
	MFR	DATE	USED ON		
QA	DATE	SIZE	CAGE CODE	DWG NO	REV
RLSE	DATE	A	28812	20149-501	A
SCALE		SHEET 1 OF 1			

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