



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: $180^\circ \pm 8^\circ$ 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
 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.



WERLATONE

Model H7492

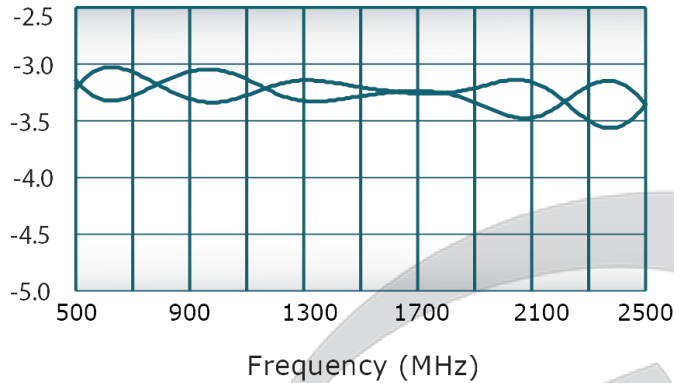


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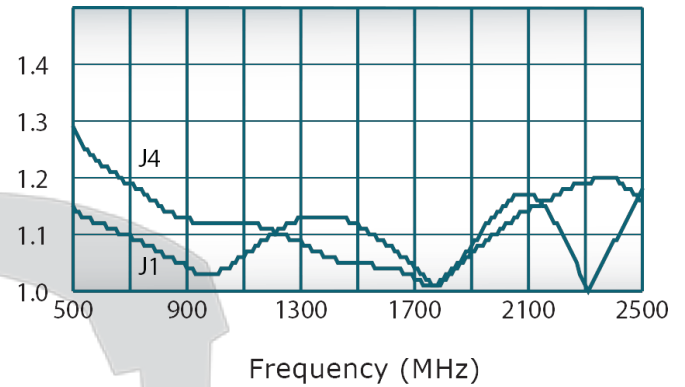
H7492

Performance Data (Specifications subject to change without notice):

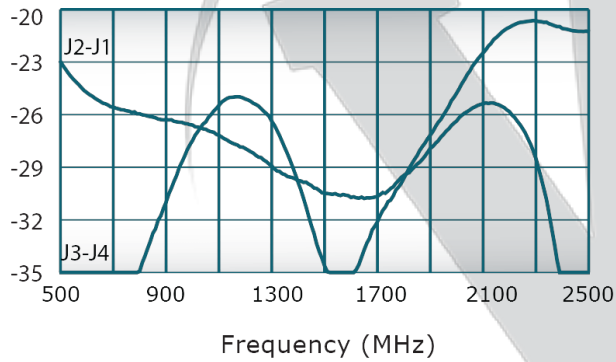
Coupling:



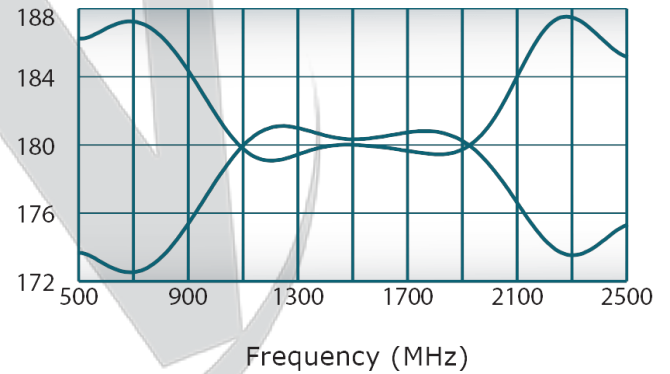
VSWR:



Isolation:



Phase Balance:



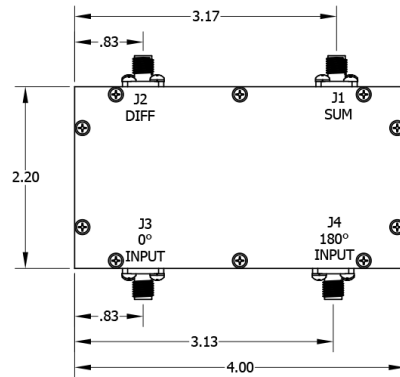
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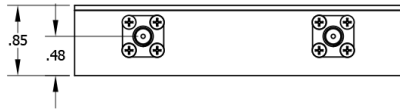
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
01/26/2010	A	ECN # 5061	NH	BW	BW

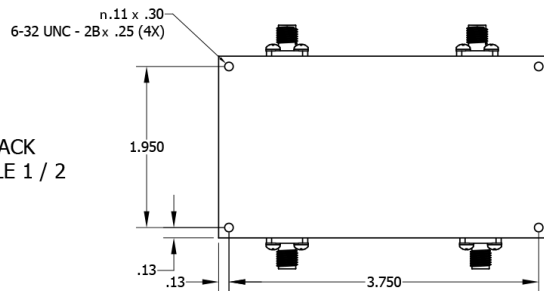
FRONT
SCALE 1 / 2



BOTTOM
SCALE 1 / 2



BACK
SCALE 1 / 2



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

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