



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.



WERLATONE

Model H7492
180° Hybrids Connectorized

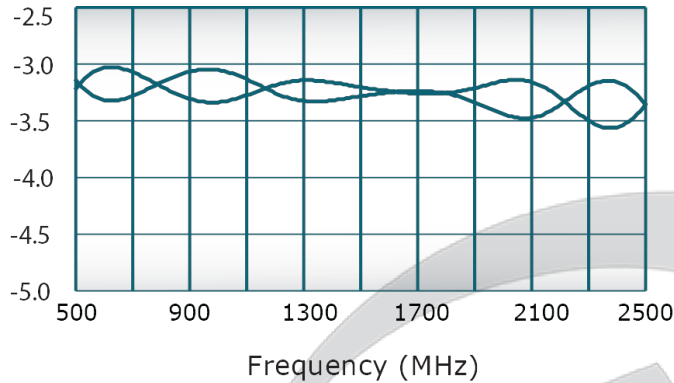


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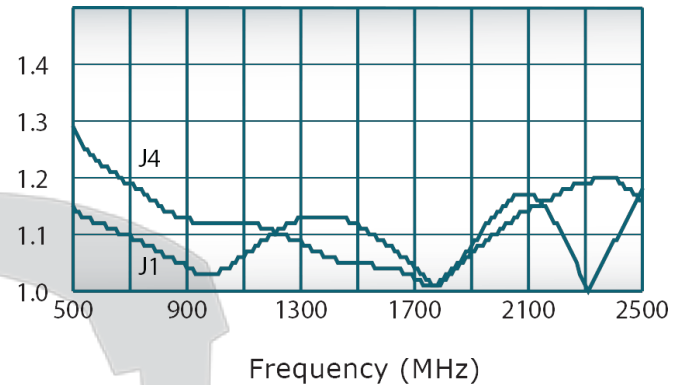
H7492

Performance Data (Specifications subject to change without notice):

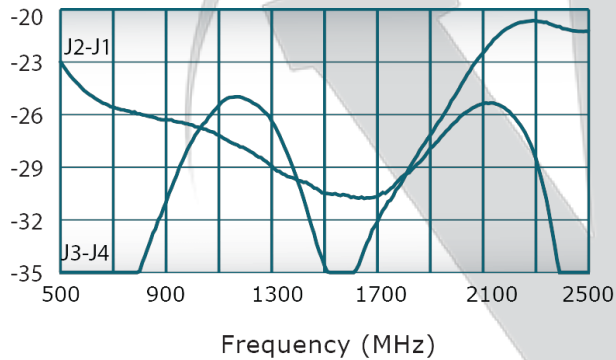
Coupling:



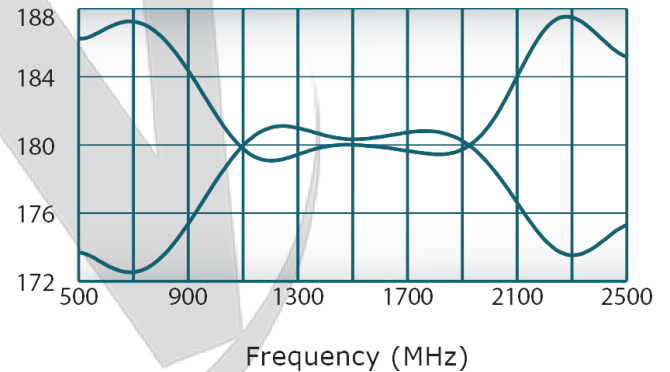
VSWR:



Isolation:



Phase Balance:

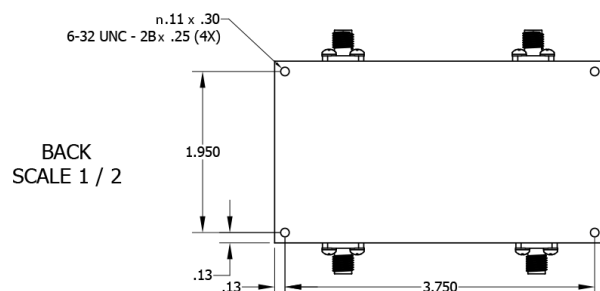
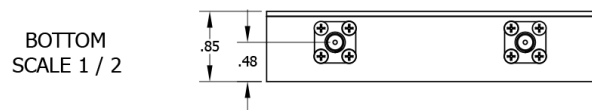
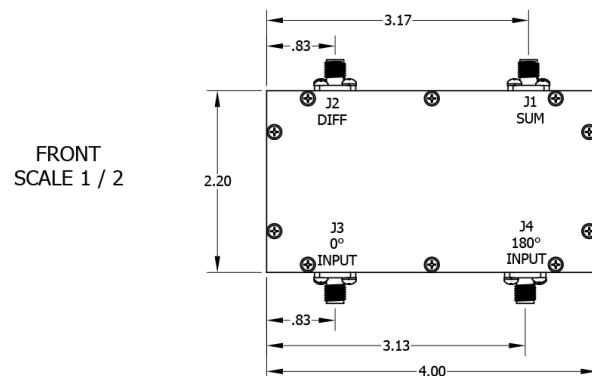


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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APP
01/26/2010	A	ECN # 5061	NH	BW	BW



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

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