



PRODUCT DATA SHEET

QH7902

Our patented 3 dB 90° Hybrid Couplers provide:

- Superior component performance starting at 3:1 Bandwidth.
- Thicker center boards for high power and increased repeatability.
- Bonded structures which eliminate any air gaps between substrates.
- More sections per bandwidth for better coupling flatness.
- Electrically shorter and physically smaller RF components.

Features:

High Power

Wide Bandwidths

Small Size

Connectorized

Drop-In & Surface Mount

Electrical Specifications:

Frequency:	500 - 2500 MHz
Power:	200 W CW
Insertion Loss:	0.7 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	90° \pm 5° Max.
Amplitude Balance:	\pm 0.5 dB Max.
Isolation:	18 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:	0.25 lb.
Size:	2.1 x 1.49 x 0.75"

Connector Configurations:

Model	Sum Port (J1)	0°,90° (J2,J3)	Iso. Port (J4)
QH7902-102	SMA	SMA	SMA

Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.



WERLATONE

Model QH7902

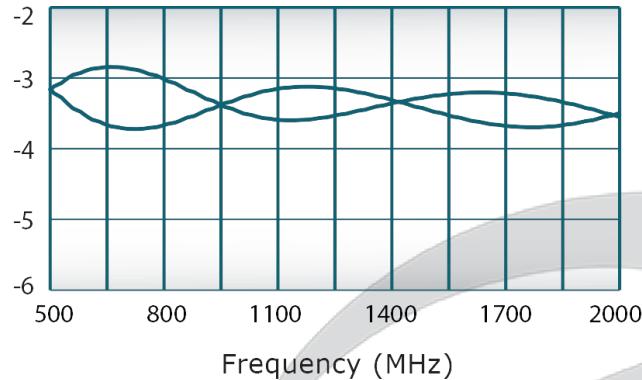
90° Hybrids Connectorized

PRODUCT DATA SHEET

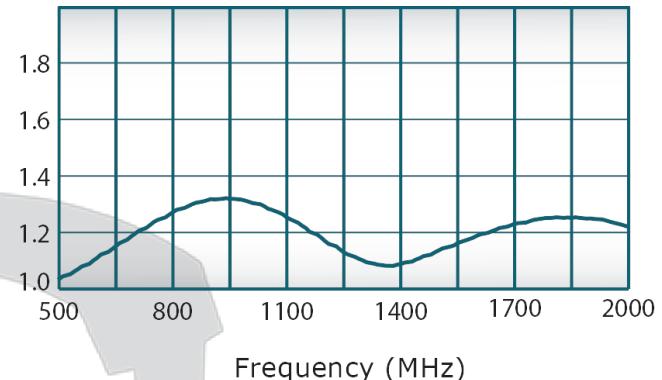
QH7902

Performance Data (Specifications subject to change without notice):

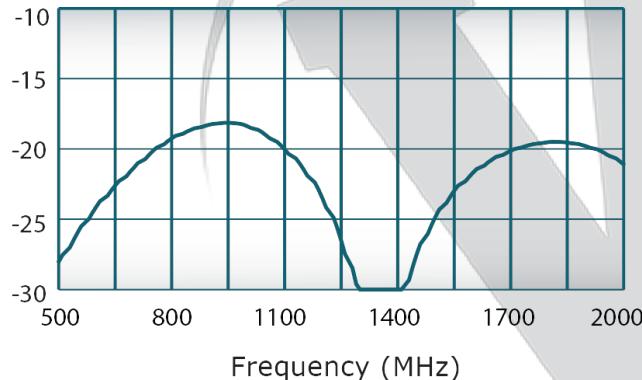
Coupling:



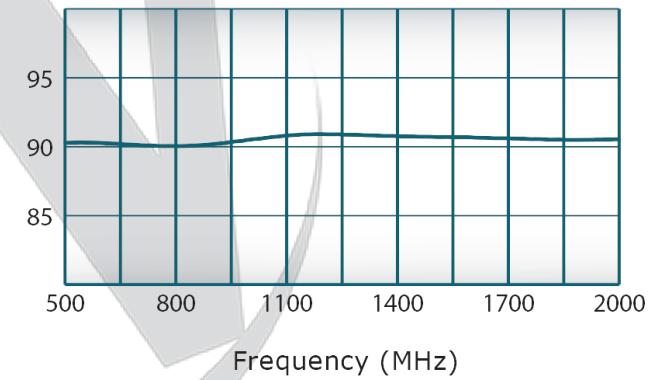
VSWR:



Isolation:



Phase Balance:



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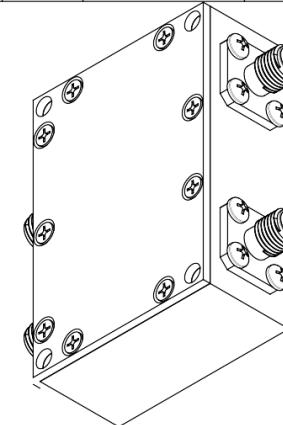
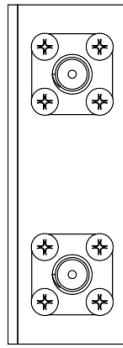
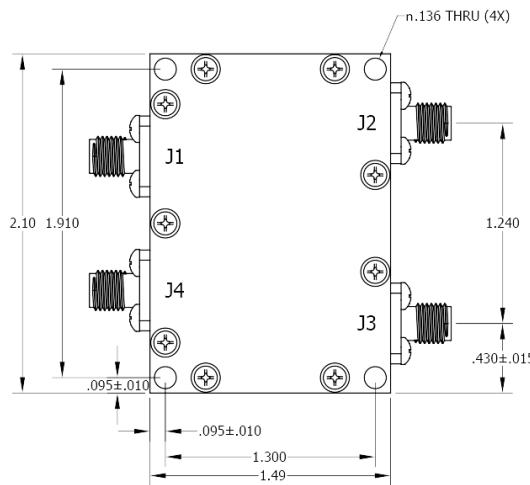
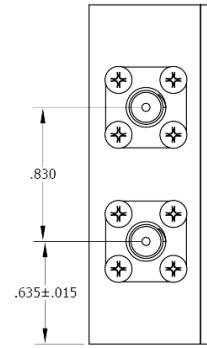
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY

DATE	REV	REVISION RECORD	AUTH	CHK	APPV
5/20/2010	-	INITIAL RELEASE	GP	NH	BW
8/16/2011	A	ECN 5442	GP	NH	BW

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UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965		17 Jon Barrett Rd
• INTERPRET DRAWING IAW MIL-STD-100		CHK	DATE	Patterson, NY 12563		
• DIMENSIONING PER ASME Y14.5M-2009		ENGR	DATE	TITLE		
• PARALLEL DIMENSIONS REF ONLY		APVD	DATE			
• DIMENSIONS ARE IN INCHES		QA	DATE	SIZE	CAGE CODE	DWG NO
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		RLSE	DATE	A	28812	20650-500
• TOLERANCES: ANGLE ± 2°				SCALE	1:1	REV
3 PL ± .005						A
2 PL ± .015						
THIRD ANGLE PROJECTION						
SHEET 1 OF 1						

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