

## 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° ± 5° Max.  
Amplitude Balance: ± 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.

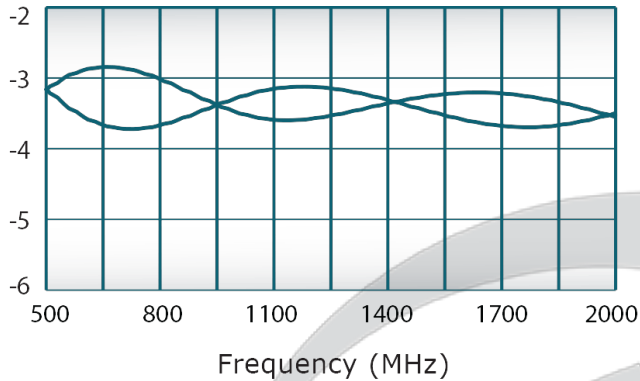


## PRODUCT DATA SHEET

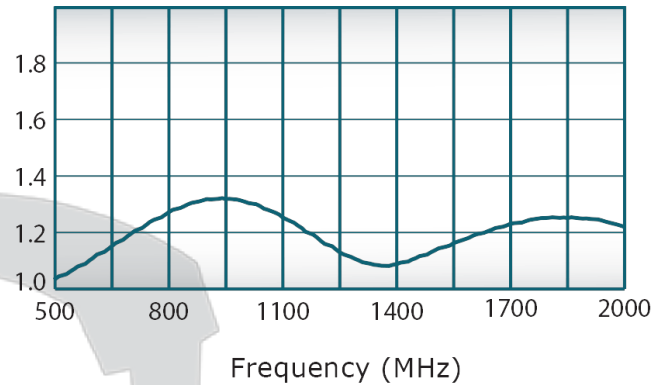
QH7902

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

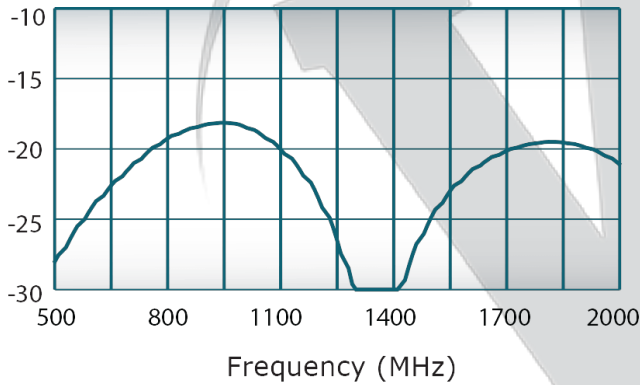
Coupling:



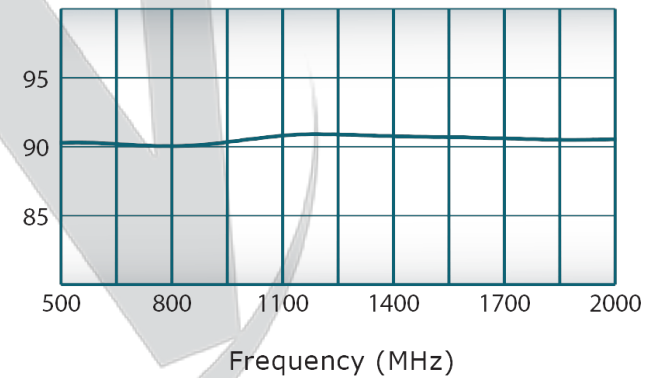
VSWR:



Isolation:



Phase Balance:

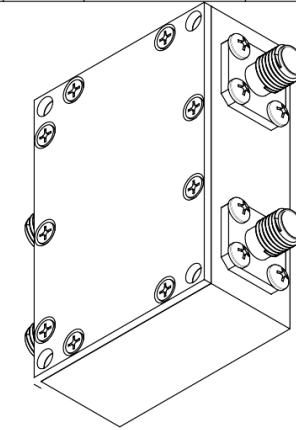
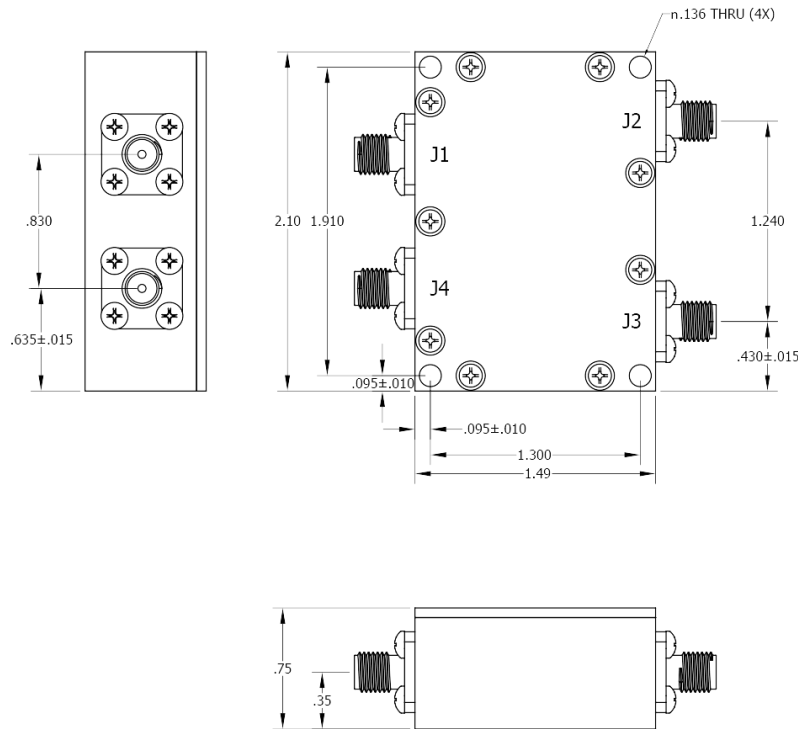




Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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
5/20/2010	-	INITIAL RELEASE	GP	NH	BW
8/16/2011	A	ECN 5442	GP	NH	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	 <b>WERLATONE</b>   SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 • DIMENSIONS/NOTES PER ASME Y14.5M-2009 • PARENTHESES, SUPPLY FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING		GP	8/16/2010				
		CHK	DATE	TITLE			
		ENGR	DATE				
		APVD	DATE				
		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		RLSE	DATE	A	28812	20650-500	A
THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1	

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