
**PRODUCT DATA SHEET**
**QH8922**
**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      Excellent Amplitude Balance

**Electrical Specifications:**

Frequency:	150 - 2000 MHz
Power:	100 W CW
Insertion Loss	0.75 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	90° ± 5° dB Max.
Amplitude Balance:	± 1.0 dB Max.
Isolation:	17 dB Min.

**Mechanical Specifications:**

Type:	Surface Mount QH8922-Ag: Immersion Silver (RoHS Compliant)
Weight:	0.4 oz.
Size:	1.47 x 1.13 x 0.16"

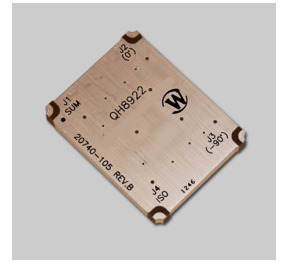
**Port Configurations:**

<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>
Sum	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Sum	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Sum	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Sum

**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.

**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

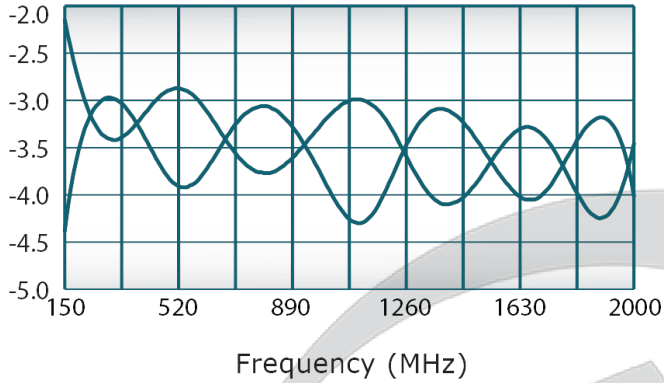


PRODUCT DATA SHEET

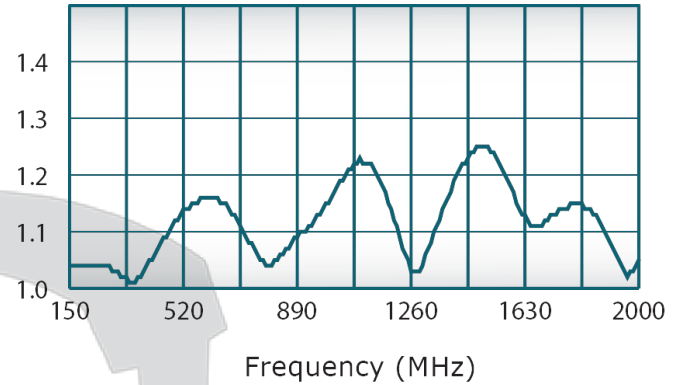
QH8922

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

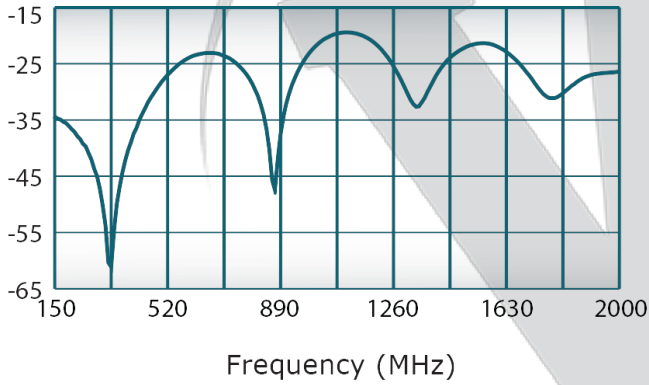
Coupling:



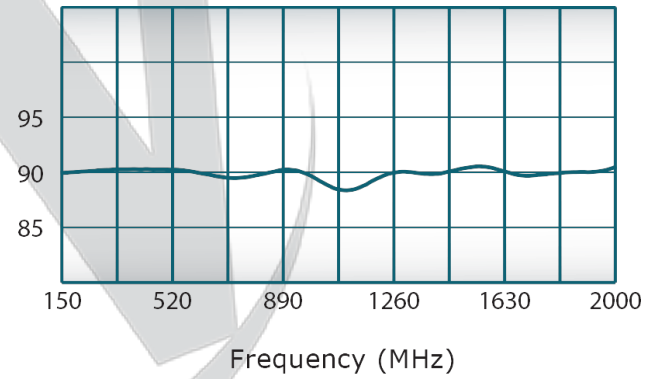
VSWR:



Isolation:



Phase Balance:



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

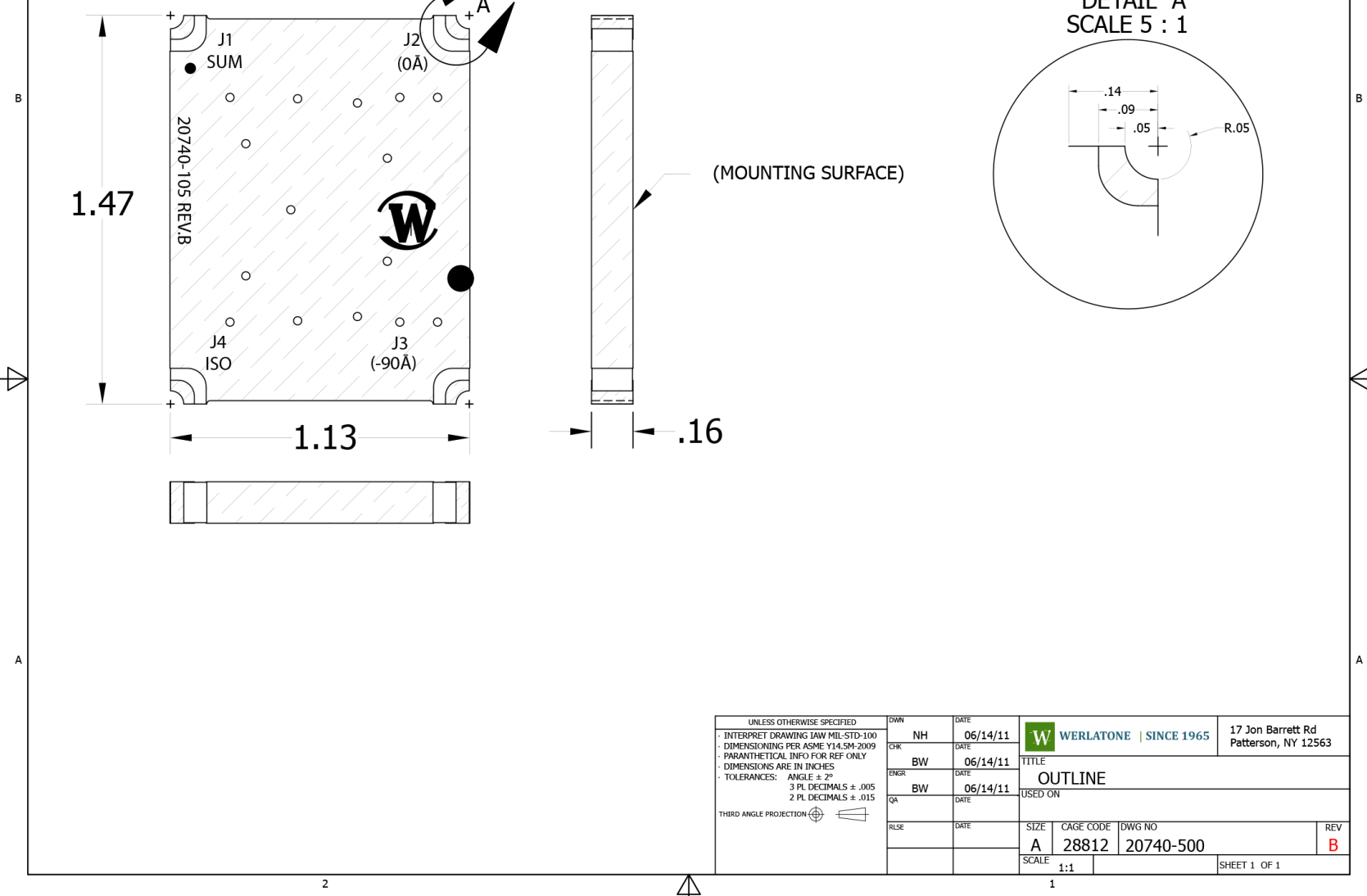
Werlatone, Inc.

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.

SEE DETAIL A  
 (4 PLCS.)

REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
6/14/2011	-	INITIAL RELEASE	NH	BW	BW
3/27/2012	A	ECN # 5549	NH	BW	BW
4/18/2012	B	ECN # 5644	NH	BW	BW



**DETAIL A**  
 SCALE 5 : 1

UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE   SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IAW MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARANETICAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015		NH	06/14/11		TITLE	
THIRD ANGLE PROJECTION		CHK	DATE	OUTLINE		
		ENGR	DATE	USED ON		
		BW	06/14/11			
		QA	DATE			
		RLSE	DATE	SIZE	CAGE CODE	DWG NO
				A	28812	20740-500
				SCALE	REV	
				1:1	B	
						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