



PRODUCT DATA SHEET

QH7862

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: 450 - 2500 MHz
 Power: 125 W CW
 Insertion Loss: 0.5 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: 90° ± 5° dB Max.
 Amplitude Balance: ± 0.45 dB Max.
 Isolation: 18 dB Min.

Mechanical Specifications:

Type: Surface Mount
 Plating Options: QH7862-Pb: Electrodeposited Tin/Lead
 QH7862-Sn: Immersion Tin (RoHS Compliant)
 QH7862-Ag: Immersion Silver (RoHS Compliant)
 QH7862-Au (ENIG)
 Weight: 6 grams
 Size: 1.5 x 1.1 x 0.095"

Port Configurations:

J1	J2	J3	J4
Input	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Input	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Input	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Input

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.

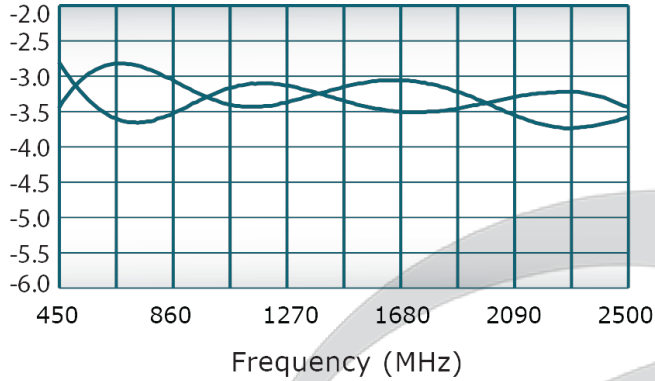
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

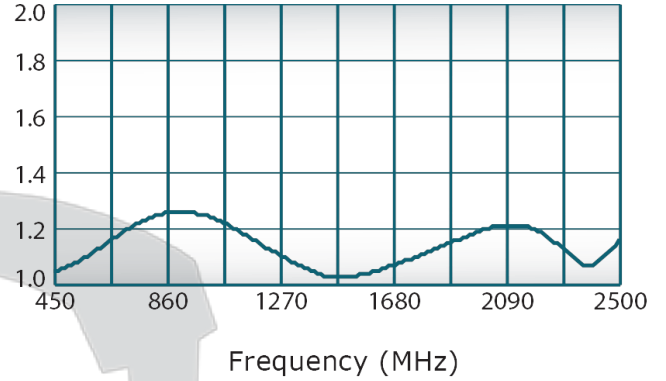


Performance Data (Specifications subject to change without notice):

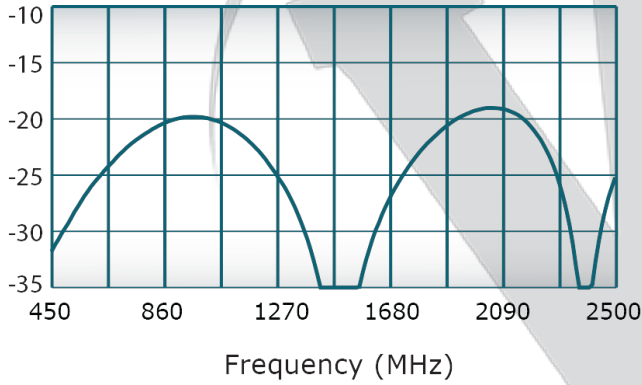
Coupling:



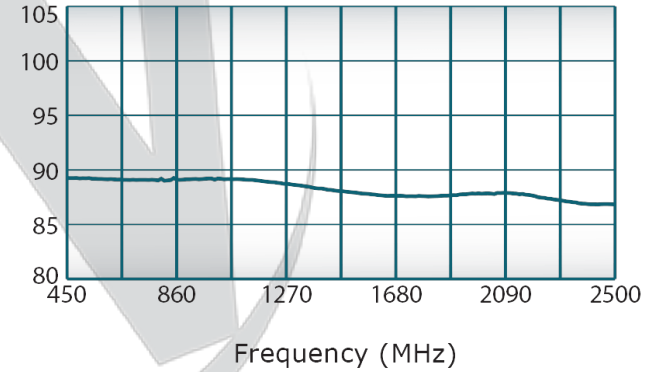
VSWR:



Isolation:



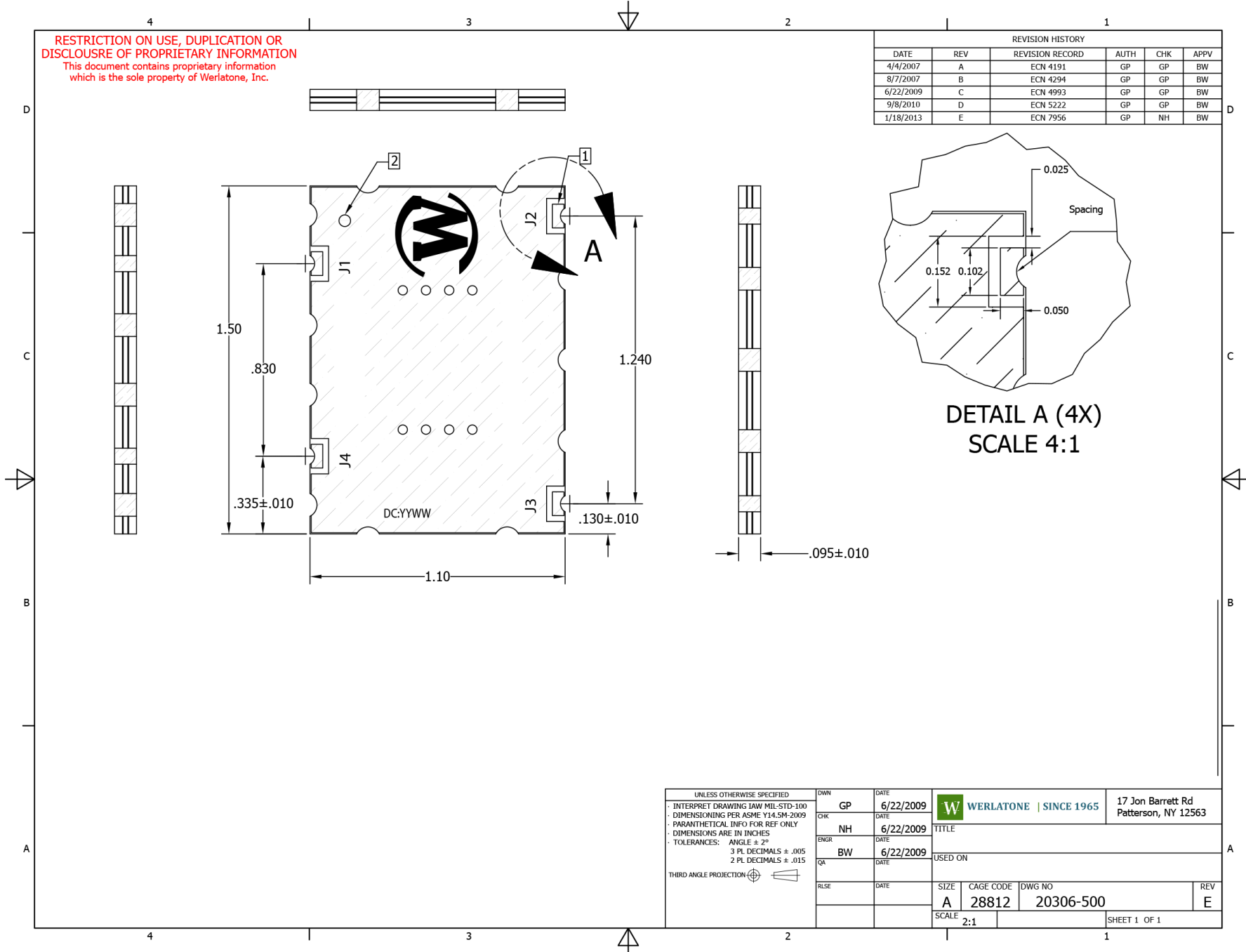
Phase Balance:



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
4/4/2007	A	ECN 4191	GP	GP	BW
8/7/2007	B	ECN 4294	GP	GP	BW
6/22/2009	C	ECN 4993	GP	GP	BW
9/8/2010	D	ECN 5222	GP	GP	BW
1/18/2013	E	ECN 7956	GP	NH	BW

**DETAIL A (4X)
SCALE 4:1**

UNLESS OTHERWISE SPECIFIED		DWN	GP	DATE	6/22/2009	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IAW MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARANTHETICAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015		CHK	NH	DATE	6/22/2009		TITLE	
THIRD ANGLE PROJECTION		ENGR	BW	DATE	6/22/2009	USED ON		
		QA		DATE		SIZE	CAGE CODE	DWG NO
		RLSE		DATE		A	28812	20306-500
						SCALE		REV
						2:1		E
								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