


PRODUCT DATA SHEET
QH8100
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:	100 - 512 MHz
Power:	250 W CW
Insertion Loss	0.45 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 5° dB Max.
Amplitude Balance:	± 0.5 dB Max.
Isolation:	20 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH8100-Pb: Electrodeposited Tin/Lead QH8100-Sn: Immersion Tin (RoHS Compliant) QH8100-Ag: Immersion Silver (RoHS Compliant) QH8100-Au (ENIG)
Weight:	1.6 oz.
Size:	3.3 x 1.52 x 0.279"

Port Configurations:

J1	J2	J3	J4
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.

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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

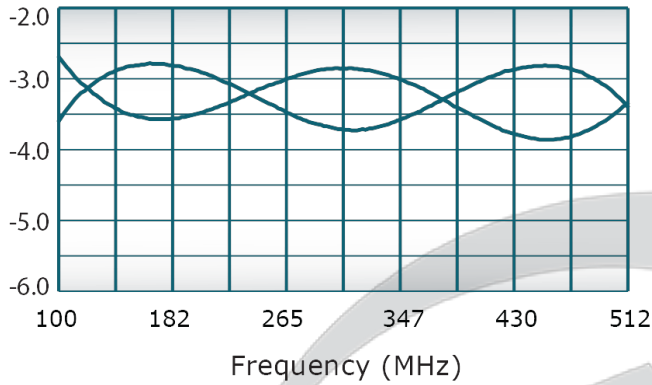


PRODUCT DATA SHEET

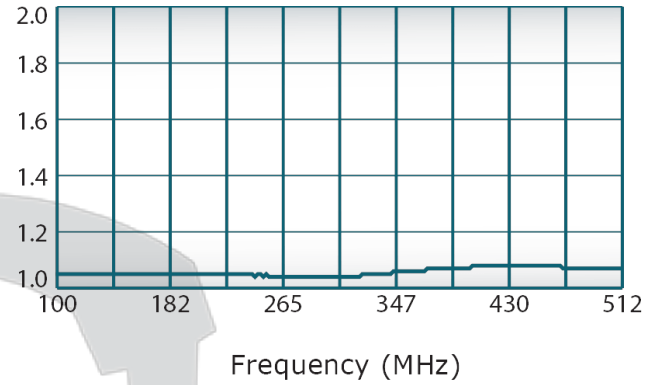
QH8100

Performance Data (Specifications subject to change without notice):

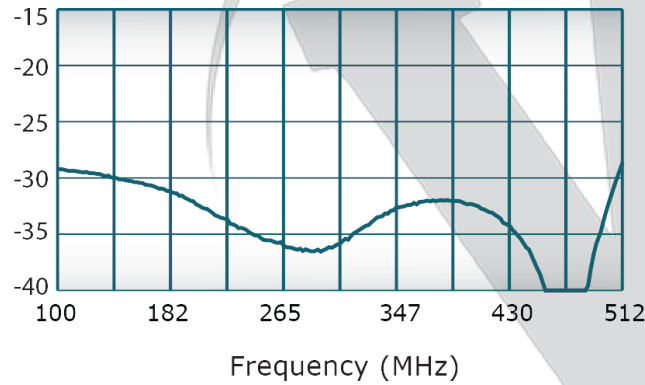
Coupling:



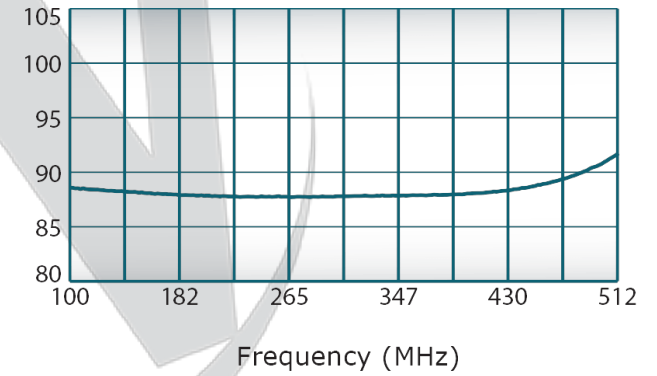
VSWR:



Isolation:



Phase Balance:



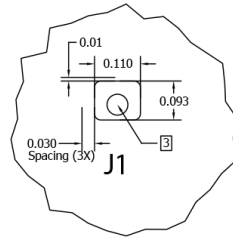
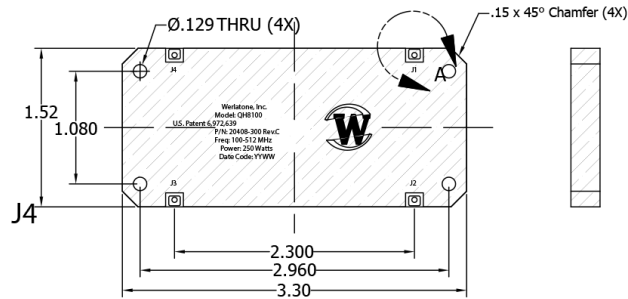
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/14/2008	BW
A	ECN 4444	3/18/2008	BW
B	ECN 4925	7/1/2009	BW
C	ECN 5259	11/18/2010	BW



DETAIL A (4X)
SCALE 4:1

UNLESS OTHERWISE SPECIFIED				DWG NO		DATE		17 Jon Barrett Rd Patterson, NY 12563	
INTERRUPT DRAWING (AWI) PER STD-100	CP	DATE	11/19/10	W	WERLATONE	SINCE 1965			
DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	11/19/10						
PARENTHESES FOR REF ONLY	NH	DATE	11/19/10						
DIMENSIONING ARE IN INCHES	ENGR	DATE							
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	BW	DATE	11/19/10						
TOLERANCES: ANGLES ± .2	MPGR	DATE							
3 PL ± .005	QA	DATE							
2 PL ± .015	RELEASE	DATE	11/19/10						
THIRD ANGLE PROJECTION	GP	DATE	11/19/10						
				SIZE	CAGE CODE	DWG NO		REV	
				B	28812	20408-500		C	
				SCALE	1:1				
									SHEET 1 OF 1

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