
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:

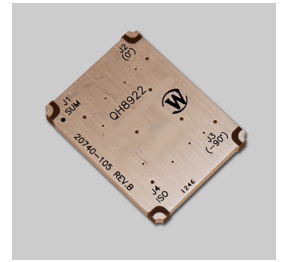
J1	J2	J3	J4
Sum	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Sum	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Sum	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Sum

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.

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

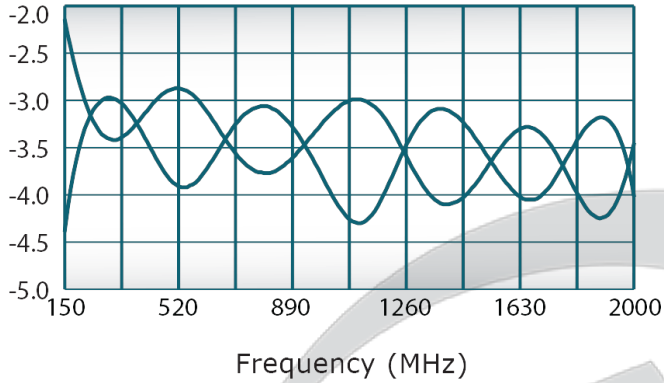


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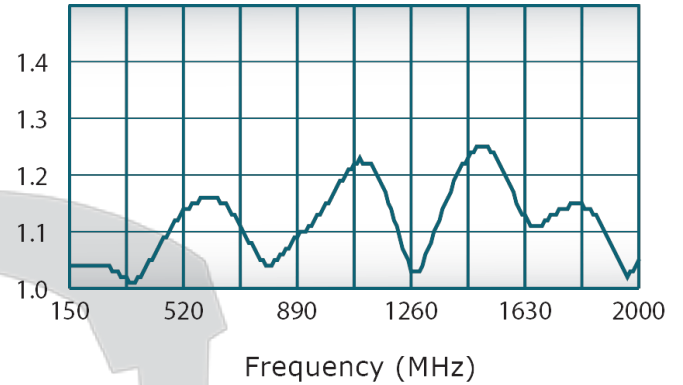
QH8922

Performance Data (Specifications subject to change without notice):

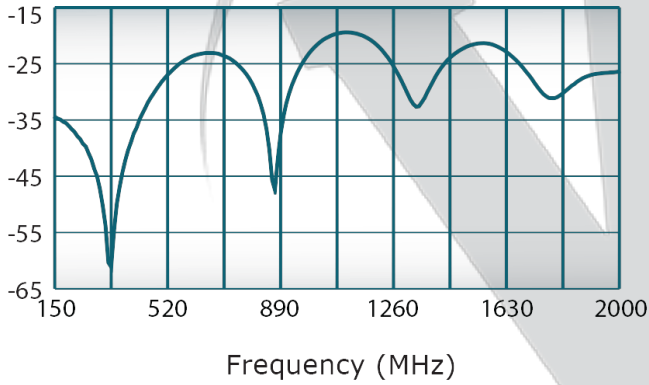
Coupling:



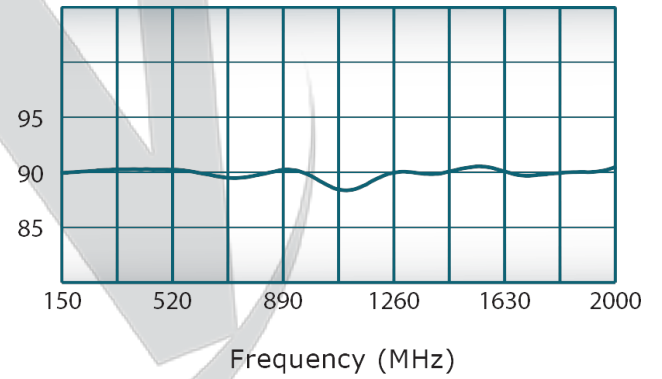
VSWR:



Isolation:



Phase Balance:



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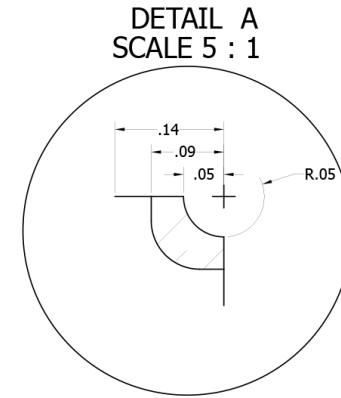
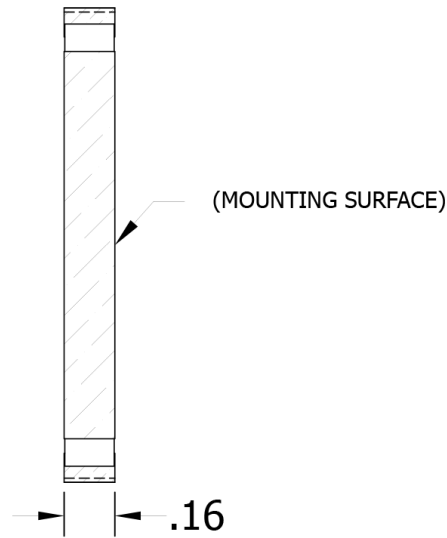
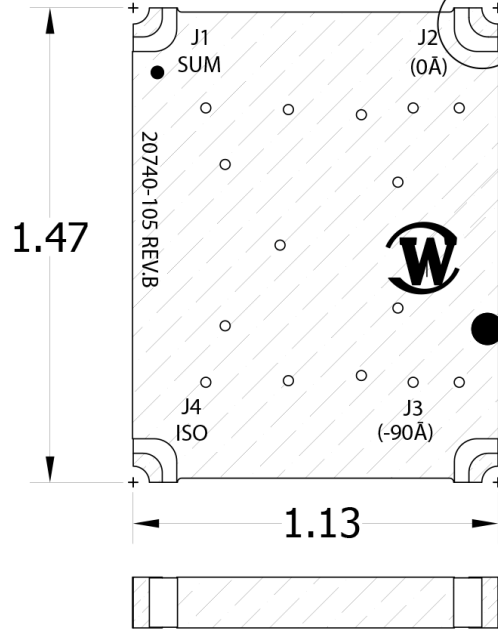
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SEE DETAIL A
 (4 PLCS.)

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



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	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		CHK	DATE		TITLE		
		ENGR	DATE	USED ON			
		QA	DATE				
		RLSE	DATE	SIZE	CAGE CODE	DWG NO	REV
				A	28812	20740-500	B
				SCALE			SHEET 1 OF 1
				1:1			

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