

PRODUCT DATA SHEET

QH8362

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: 800 - 4200 MHz
 Power: 150 W CW
 Insertion Loss: 0.55 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: 2 oz.
 Size: 1.55 x 1.58 x 0.47"

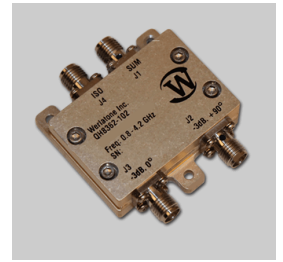
Connector Configurations:

Model	Sum Port (J1)	-90°,0° (J2,J3)	Diff. Port (J4)
QH8362-102	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.

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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

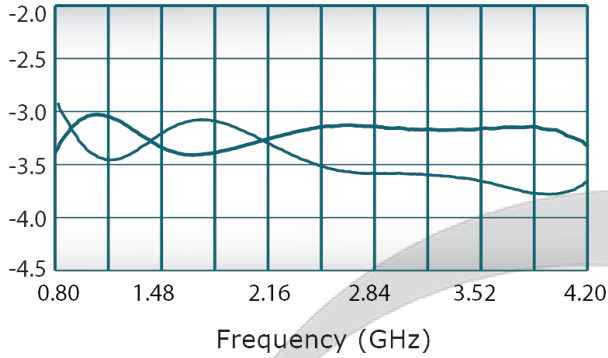


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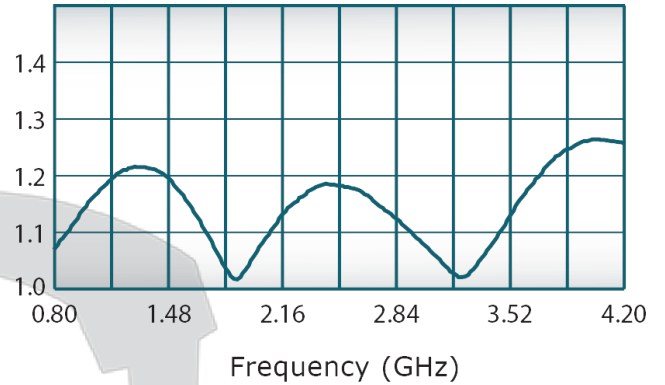
QH8362

Performance Data (Specifications subject to change without notice):

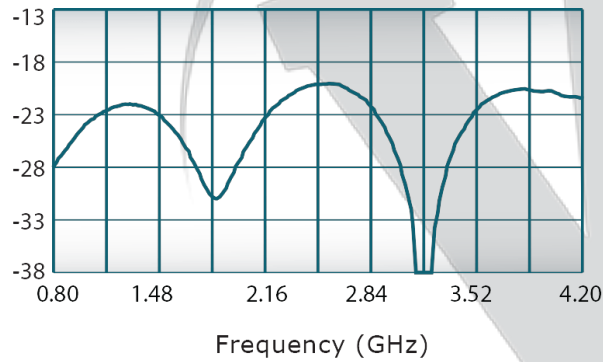
Coupling:



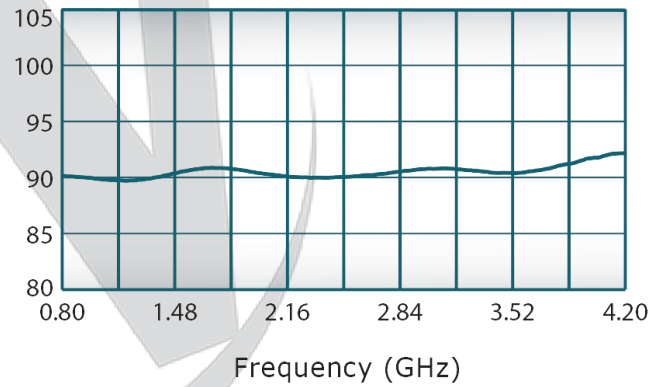
VSWR:



Isolation:



Phase Balance:



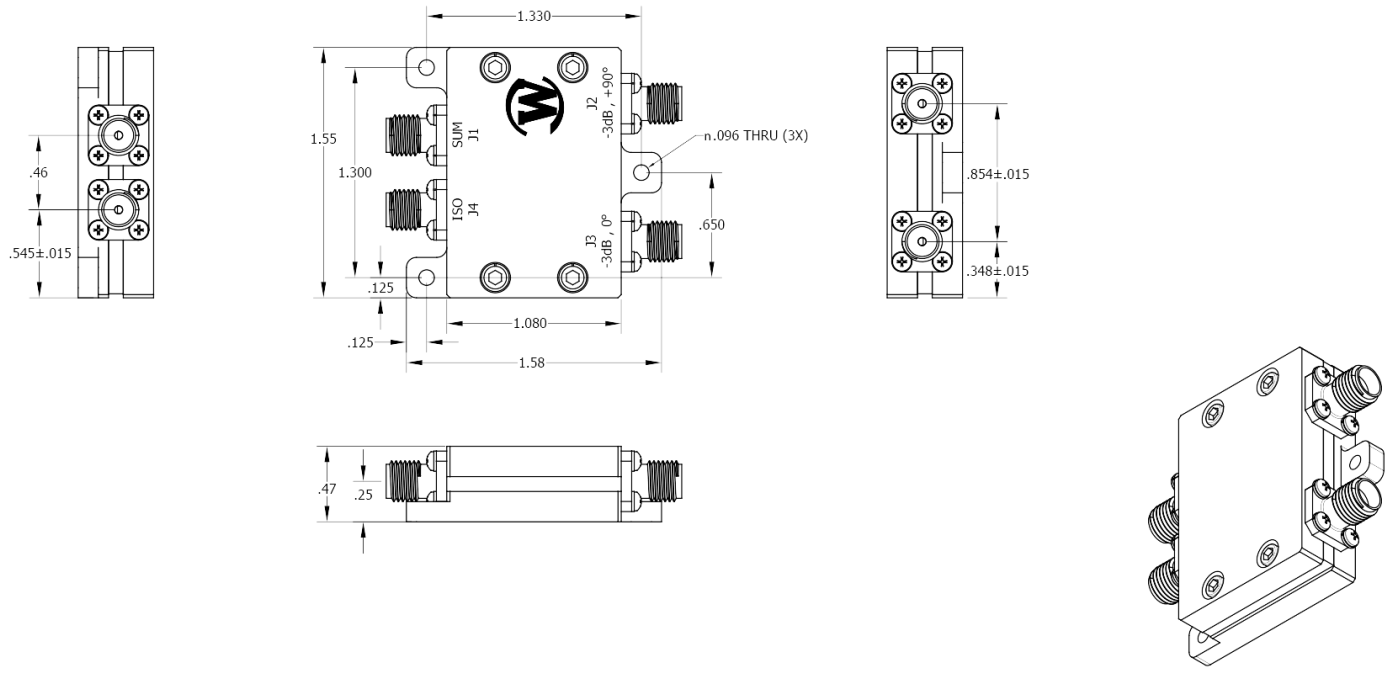
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REVISION HISTORY				
DATE	REV	DESCRIPTION	AUTHOR	CHECKED BY
4/9/2009	-	INITIAL RELEASE	GP	NH
6/6/2013	A	ECN 8214	GP	BW



			UNLESS OTHERWISE SPECIFIED	DWN	DATE
			• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	GP	4/8/09
			• DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES	CHK	DATE
			• DIMENSIONS IN PARENTHESES ARE FOR REFERENCE ONLY	CS	4/9/09
			• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	ENGR	DATE
			• TOLERANCES: ANGLE ± 2°	GP	4/9/09
			3 PL ± .005	APVD	DATE
			3 PL ± .015	BW	4/9/09
				QA	DATE
				RLSE	DATE
NEXT ASSY		USED ON			
APPLICATION					

 WERLATONE SINCE 1965			17 Jon Barrett Rd Patterson, NY 12563	
TITLE				
3dB, 90° Hybrid Coupler				
SIZE	CAGE CODE	DWG NO	REV	
A	28812	20510-500	A	
SCALE	1:1			SHEET 1 OF 1

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