

## 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.

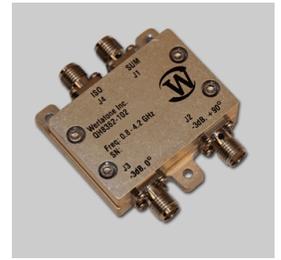
### Mechanical Specifications:

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.

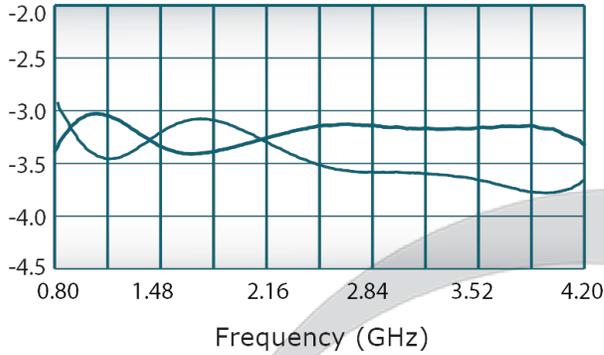


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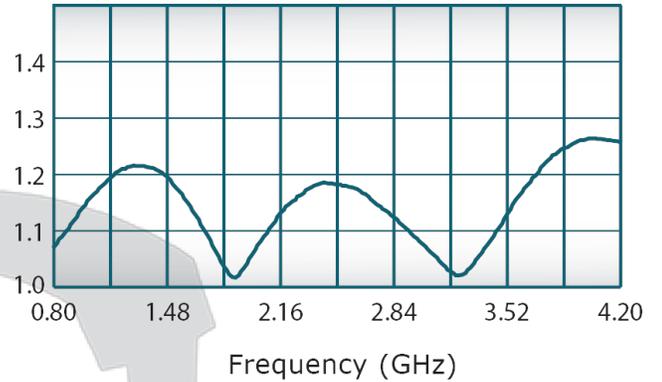
QH8362

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

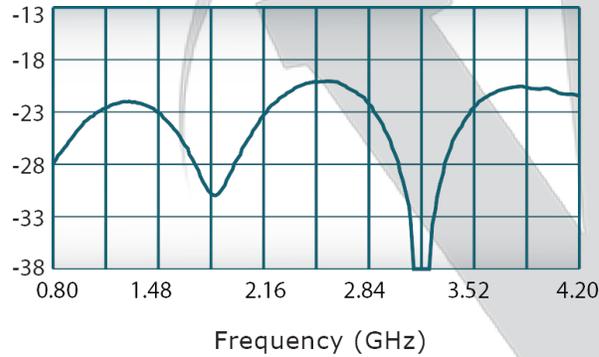
Coupling:



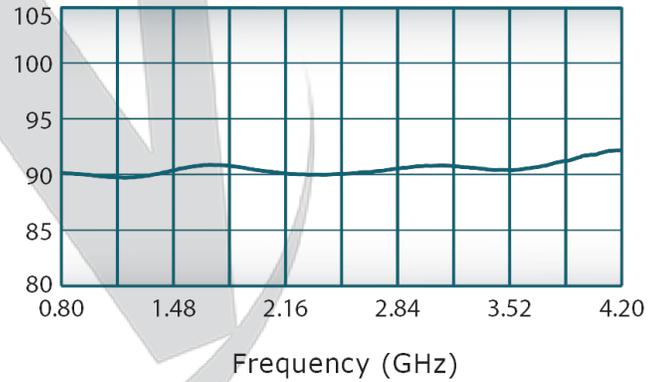
VSWR:



Isolation:



Phase Balance:



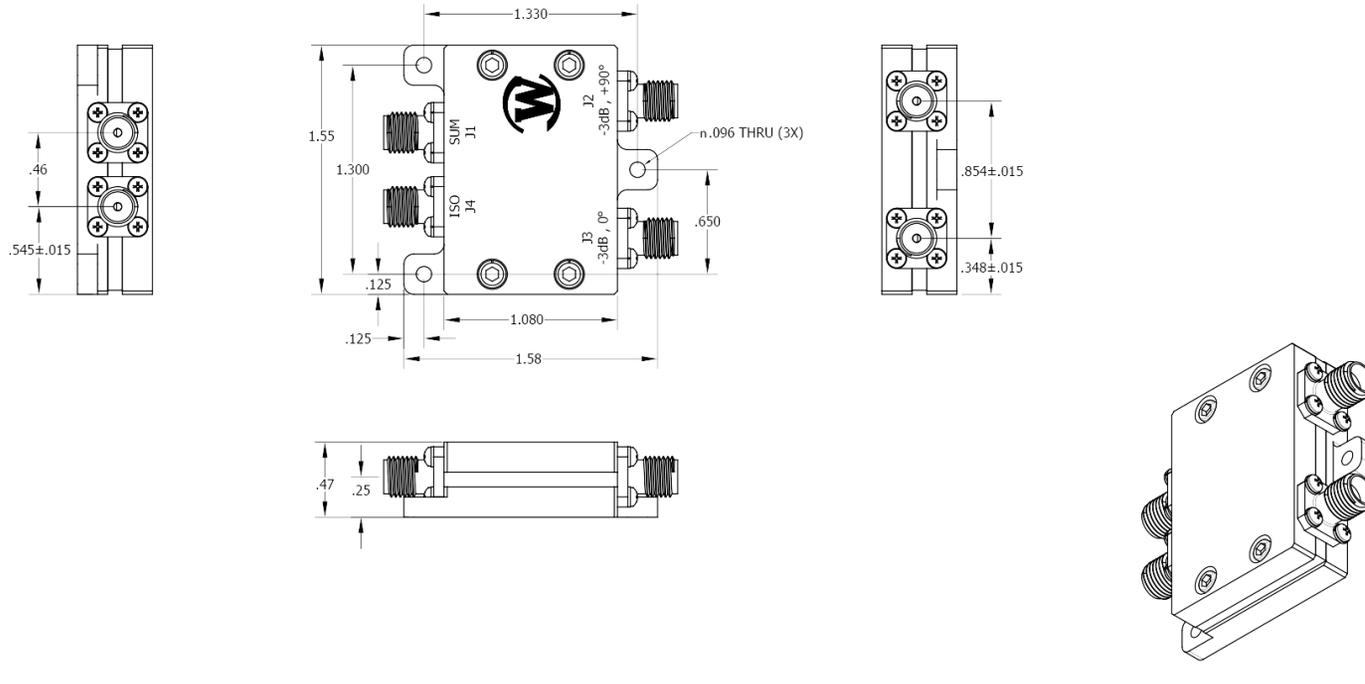
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Werlatone, Inc.

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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	<b>WERLATONE   SINCE 1965</b> 17 Jon Barrett Rd Patterson, NY 12563
		<ul style="list-style-type: none"> <li>• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100</li> <li>• DIMENSIONING PER ASME Y14.5M-2009</li> <li>• PARENTHETICAL DIMENSIONS FOR REF ONLY</li> <li>• DIMENSIONS ARE IN INCHES</li> <li>• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING</li> </ul>		GP	4/8/09	
				CHK	DATE	<b>TITLE</b> <b>3dB, 90° Hybrid Coupler</b>
				CS	4/9/09	
				ENGR	DATE	SIZE CAGE CODE DWG NO REV A 28812 20510-500 A
				GP	4/9/09	
				APVD	DATE	SCALE 1:1 SHEET 1 OF 1
				BW	4/9/09	
				QA	DATE	
				RLSE	DATE	
NEXT ASSY USED ON APPLICATION				THIRD ANGLE PROJECTION		

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