



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: $90^\circ \pm 5^\circ$ 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 $+75^\circ\text{C}$
 Storage Temperature: -60°C to $+85^\circ\text{C}$
 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.

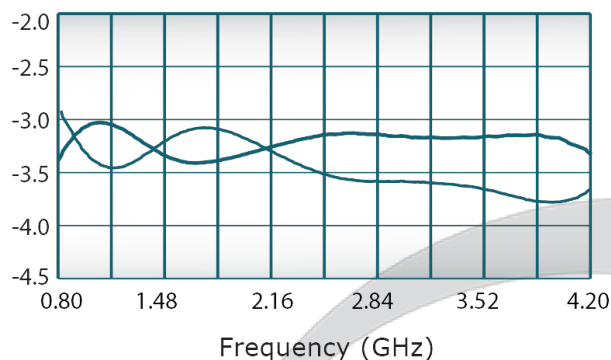


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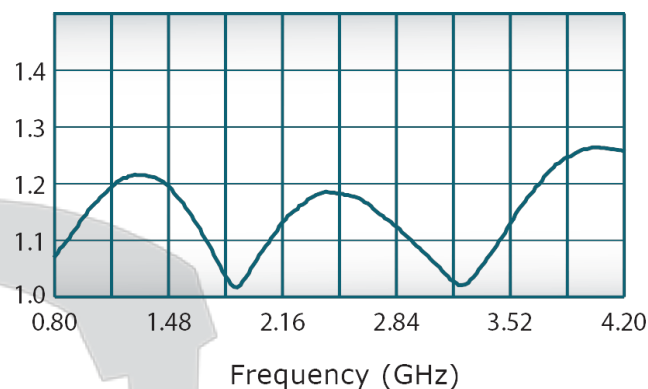
QH8362

Performance Data (Specifications subject to change without notice):

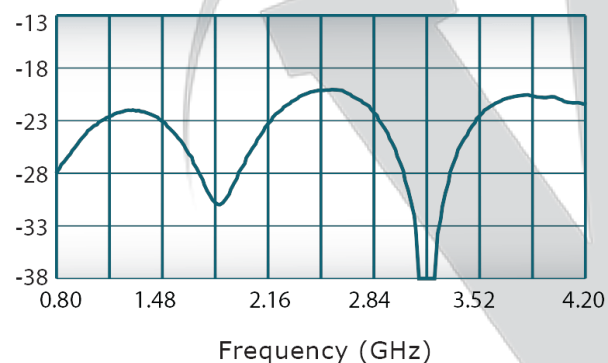
Coupling:



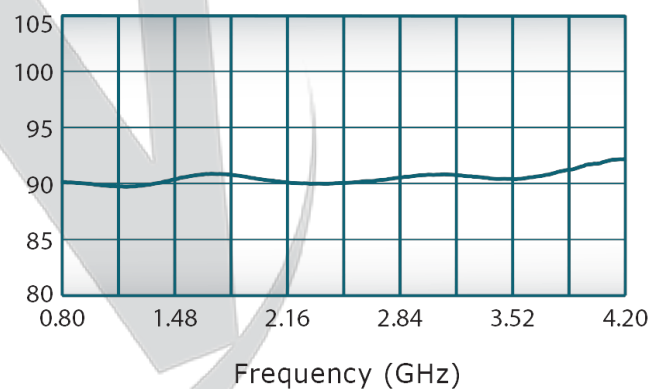
VSWR:



Isolation:



Phase Balance:

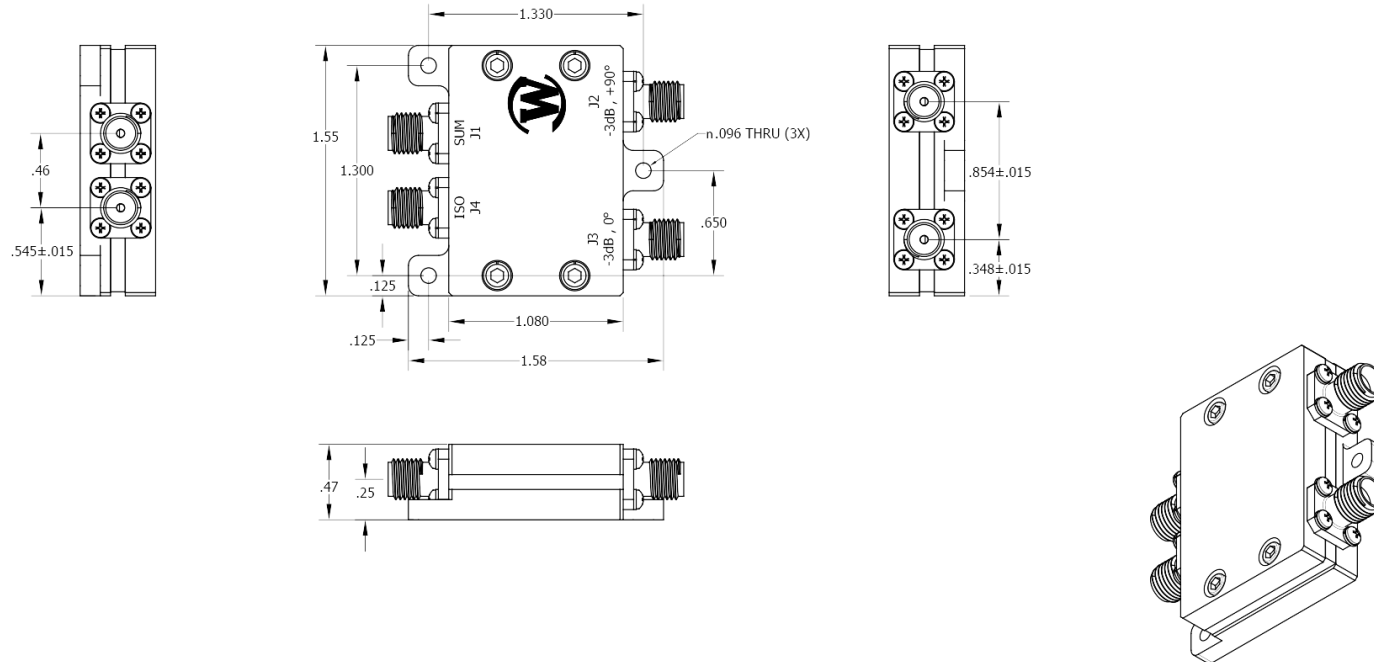



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REVISION HISTORY				
DATE	REV	DESCRIPTION	AUTHOR	CHECKED BY
4/9/2009	-	INITIAL RELEASE	GP	NH
6/6/2013	A	ECN 8214	GP	BW



		UNLESS OTHERWISE SPECIFIED		DWN	GP	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563		
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 • DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES • DIMENSIONS IN PARENTHESES ARE FOR REFERENCE ONLY • DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING		CHK	CS	DATE				
		• TOLERANCES: ANGLE ± 2° 3 PL ± .005 2 PL ± .015		ENGR	GP	DATE	TITLE			
				APVD	BW	DATE	3dB, 90° Hybrid Coupler			
NEXT ASSY		USED ON		QA		DATE	SIZE	CAGE CODE	DWG NO	REV
							A	28812	20510-500	A
APPLICATION				RLSE		DATE	SCALE	1:1		SHEET 1 OF 1
		THIRD ANGLE PROJECTION								

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