
PRODUCT DATA SHEET
QH8960
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:	470 - 860 MHz
Power:	250 W CW
Insertion Loss:	0.3 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 3° Max.
Amplitude Balance:	± 0.75 dB Max.
Isolation:	20 dB Min.

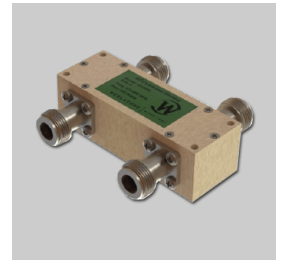
Mechanical Specifications:

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
Size:	3.0 x 1.14 x 1.0"

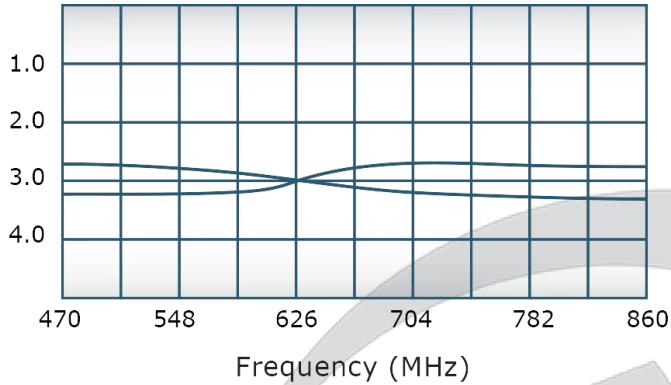
Connector Configurations:

Model	Sum Port (J1)	0°, -90° (J2,J3)	Isolated Port
QH8960-10	N Female	N Female	N Female

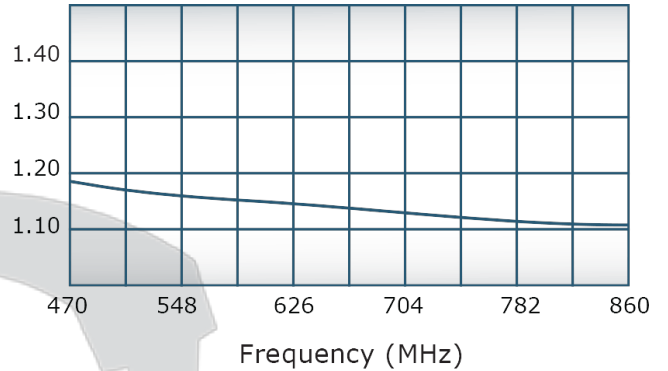
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.


Performance Data (Specifications subject to change without notice):

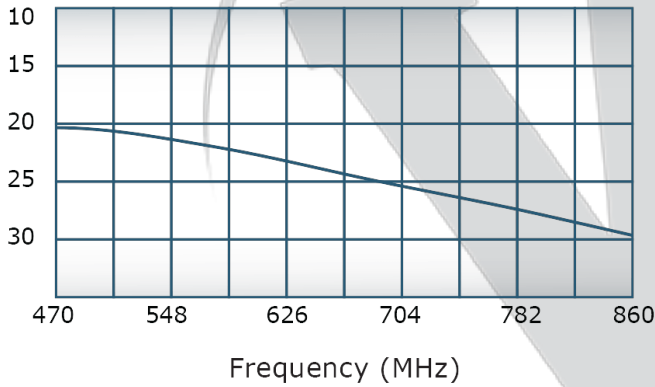
Coupling:



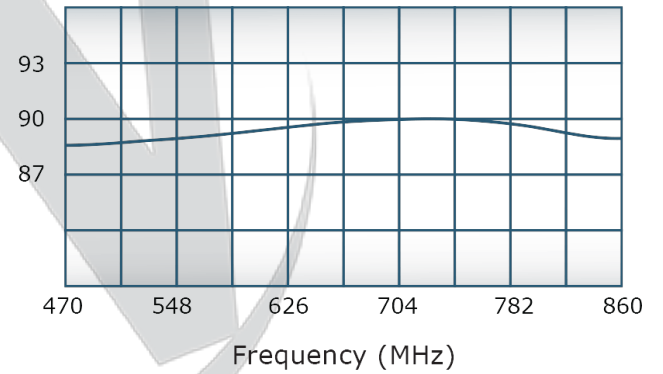
VSWR:



Isolation:

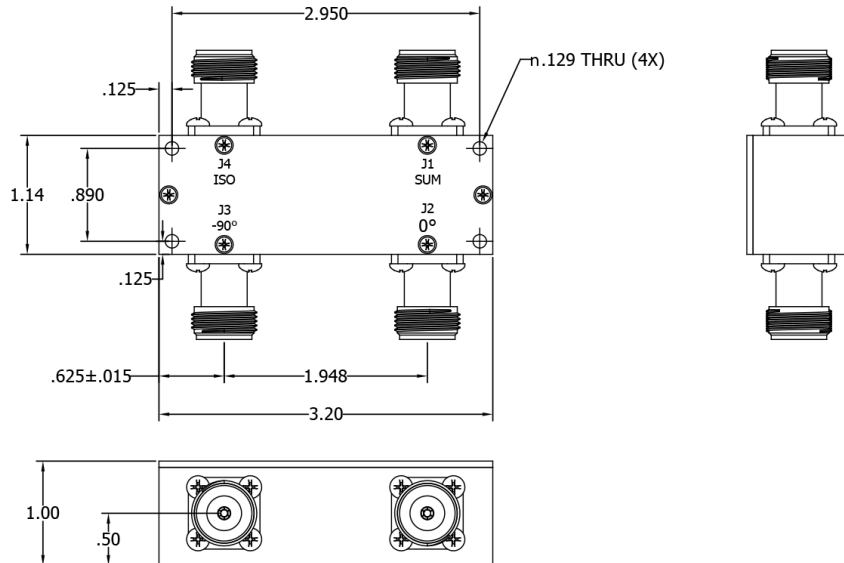


Phase Balance:



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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	3/3/11	BW



UNLESS OTHERWISE SPECIFIED		DRW	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERNET DRAWING (NO PLOT) (NO DIMENSIONS PER ASME Y14.94-2009) (NO DIMENSIONAL INFO FOR REF ONLY) (DIMENSIONS ARE IN INCHES) (DIMENSIONAL LIMITS APPLY BEFORE PROCESSES)		CP	3/3/2011	
TOLERANCES: ANGLE = .3 3 PL = .005 2 PL = .015		CHK	DATE	QH8960-10
THIRD ANGLE PROJECTION		NH	3/3/2011	
		ENGR	DATE	SIZE
		APVD	DATE	B 28812
		QA	DATE	CAGE CODE
		RELSE	DATE	20746-500
				DWG NO
				SCALE
				1:1
				REV
				-
				SHEET 1 OF 1

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