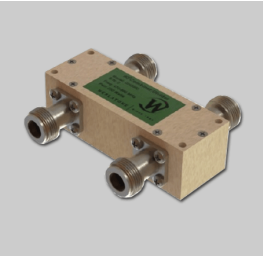
WERLATONE

Model QH8960
90° Hybrids Connectorized



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:

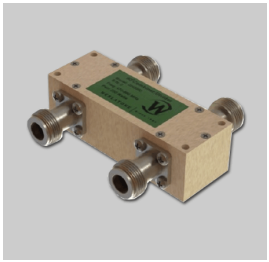
Model	**Sum Port (J1)**	**0°, -90° (J2,J3)**	**Isolated Port**
QH8960-10	N Female	N Female	N Female

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.

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of 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

Werlatone, Inc.All Rights Reserved

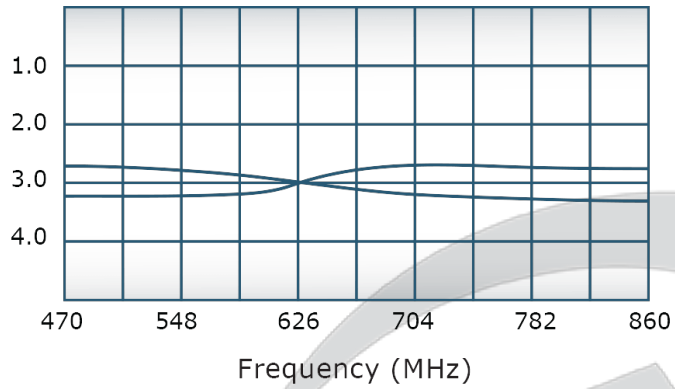
Model QH8960
90° Hybrids Connectorized



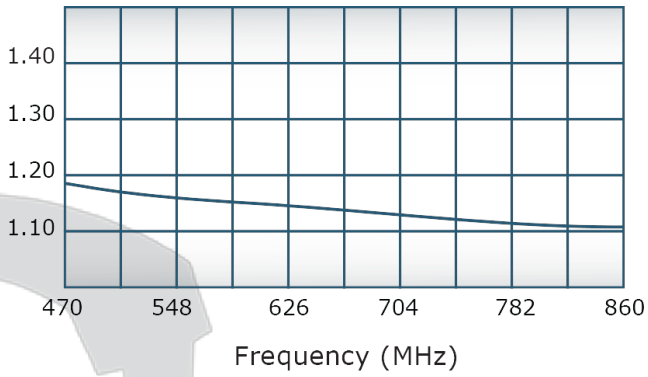
PRODUCT DATA SHEET **QH8960**

Performance Data (Specifications subject to change without notice):

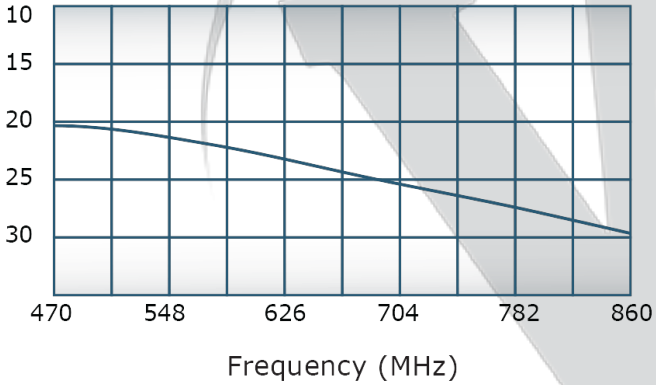
Coupling:



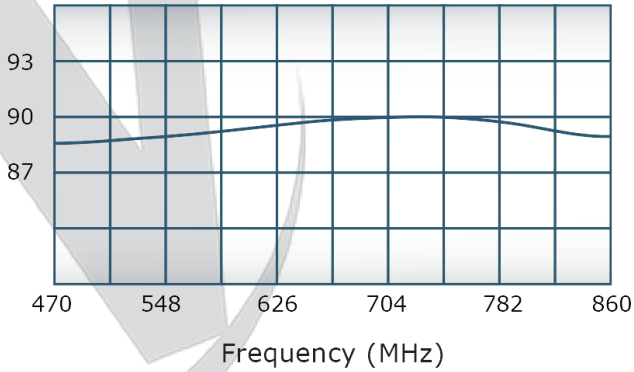
VSWR:



Isolation:



Phase Balance:

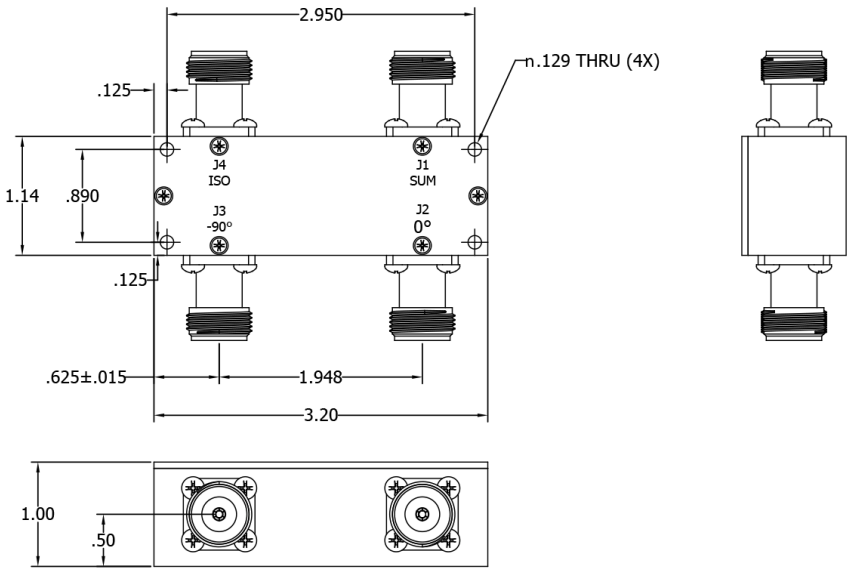


Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Werlatone, Inc.All Rights Reserved

RESTRICTION ON USE, DUPLICATION OR
DISCLOSURE OF PROPRIETARY INFORMATION
This document contains proprietary information
which is the sole property of Werlatone, Inc.

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



UNLESS OTHERWISE SPECIFIED: INTERPRET DRAWING IAW MIL-STD-100; DIMENSIONING PER ASME Y14.5M-2009; PARENTHETICAL INFO FOR REF ONLY; DIMENSIONS ARE IN INCHES; DIMENSIONAL LIMITS APPLY BEFORE PROCESSES; TOLERANCES: ANGLE ± 2-, 3 PL ± .005, 2 PL ± .015	DWN GP	DATE 3/3/2011	WERLATONE | SINCE 1965 — 17 Jon Barrett Rd, Patterson, NY 12563
	CHK NH	DATE 3/3/2011	TITLE: QH8960-10
	ENGR	DATE	SIZE B | CAGE CODE 28812 | DWG NO 20746-500 | REV -
	APVD	DATE	
	QA	DATE	
THIRD ANGLE PROJECTION	RLSE	DATE	SCALE 1:1 | SHEET 1 OF 1

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of 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