Model QH8911
90° Hybrids Connectorized

PRODUCT DATA SHEET **QH8911**

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:	80 - 1000 MHz
Power:	250 W CW
Insertion Loss:	0.7 dB Max.
VSWR:	1.45:1 Max.
Phase Balance:	90° ± 5° Max.
Amplitude Balance:	± 1.0 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:	0.75 lbs.
Size:	4.25 x 2.88 x 1.0''

Connector Configurations:

Model	**Sum Port (J1)**	**0°, -90° (J2,J3)**	**Ext. Load Port**
QH8911-10	N Female	N Female	Not Applicable
QH8911-12	N Female	SMA	Not Applicable
QH8911-102	SMA	SMA	Not Applicable

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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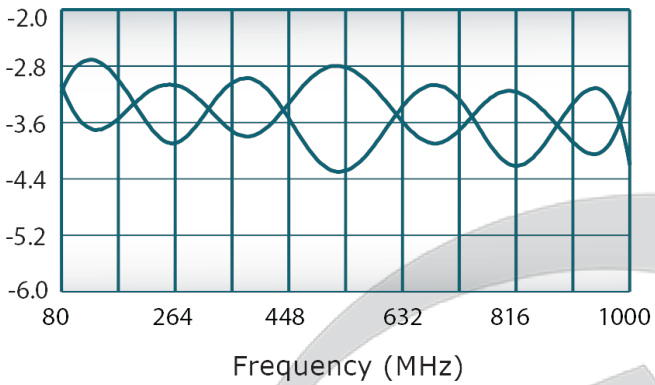
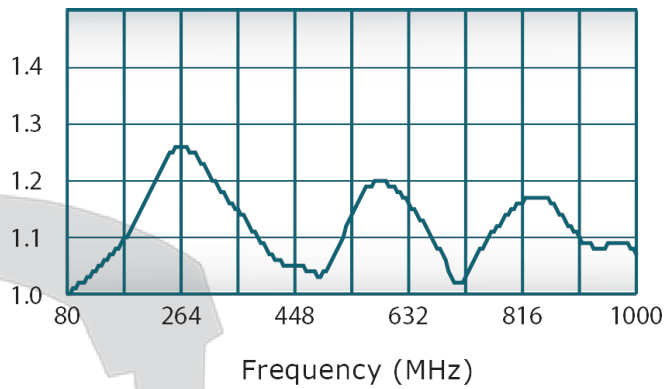
Performance Data (Specifications subject to change without notice):

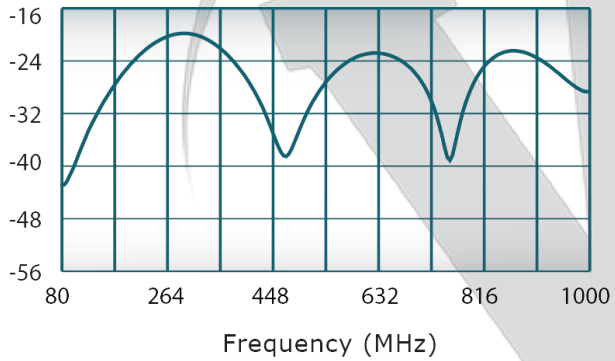
Coupling:



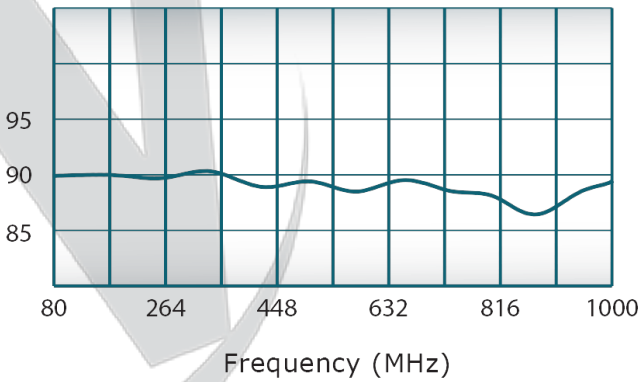
VSWR:



Isolation:



Phase Balance:



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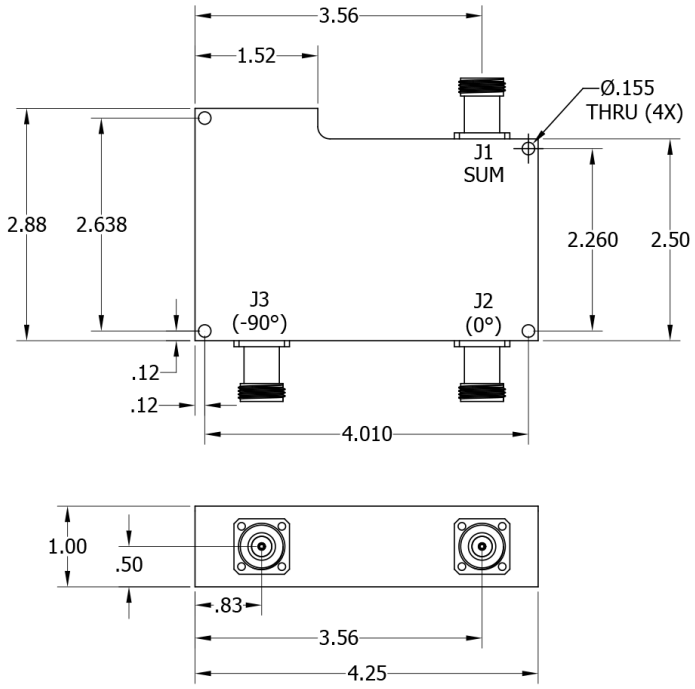
REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
4/7/2011	-	INITIAL RELEASE	NH	BW	BW



UNLESS OTHERWISE SPECIFIED · INTERPRET DRAWING IAW MIL-STD-100 · DIMENSIONING PER ASME Y14.5M-2009 · PARANTHETICAL INFO FOR REF ONLY · DIMENSIONS ARE IN INCHES · TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015 THIRD ANGLE PROJECTION	DWN NH	DATE 04/07/11	WERLATONE | SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
	CHK BW	DATE 04/07/11	TITLE: OUTLINE
	ENGR BW	DATE 04/07/11	USED ON
	QA	DATE	
	RLSE	DATE	SIZE A | CAGE CODE 28812 | DWG NO 20737-500 | REV -
			SCALE 1:2 | SHEET 1 OF 1

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