Model QH8281
90° Hybrids Connectorized

PRODUCT DATA SHEET **QH8281**

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:	500 - 3000 MHz
Power:	200 W CW
Insertion Loss:	0.7 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	90° ± 5° Max.
Amplitude Balance:	± 0.75 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:	3.5 oz.
Size:	2.1 x 1.49 x 0.75''

Connector Configurations:

Model	**Sum Port (J1)**	**0°, 90° (J2,J3)**	**Iso. Port (J4)**
QH8281-102	SMA	SMA	SMA

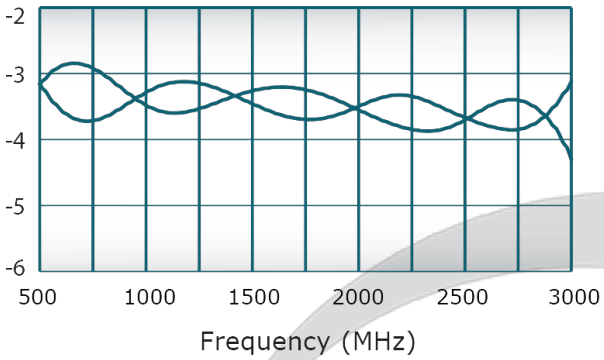
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the 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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

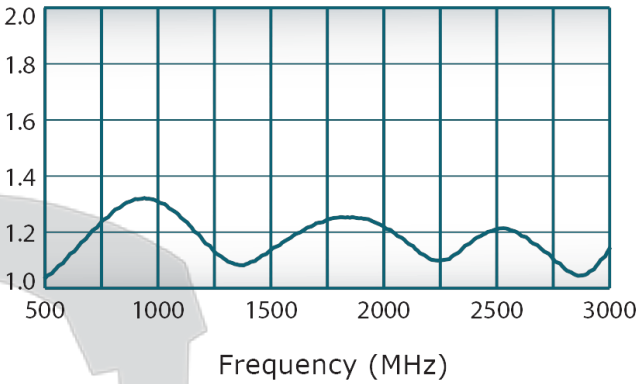
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Performance Data (Specifications subject to change without notice):

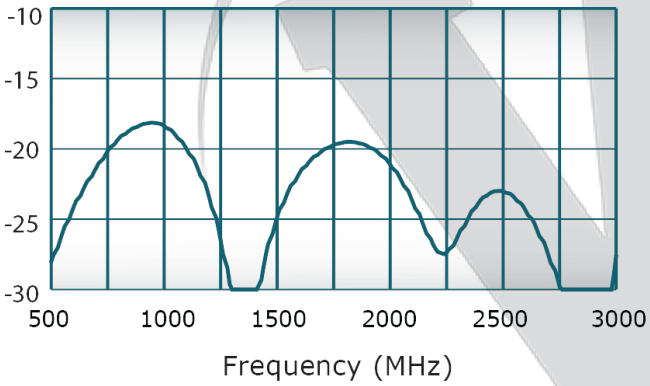
Coupling:



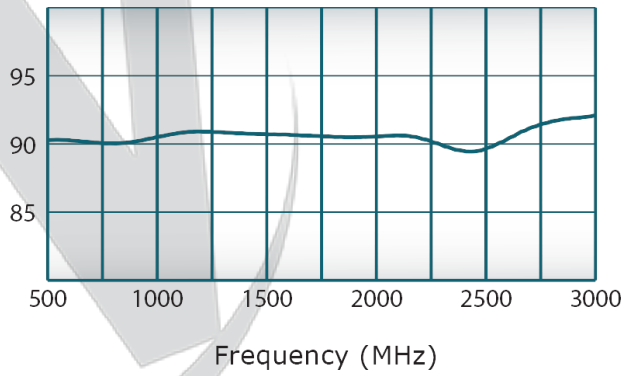
VSWR:



Isolation:



Phase Balance:

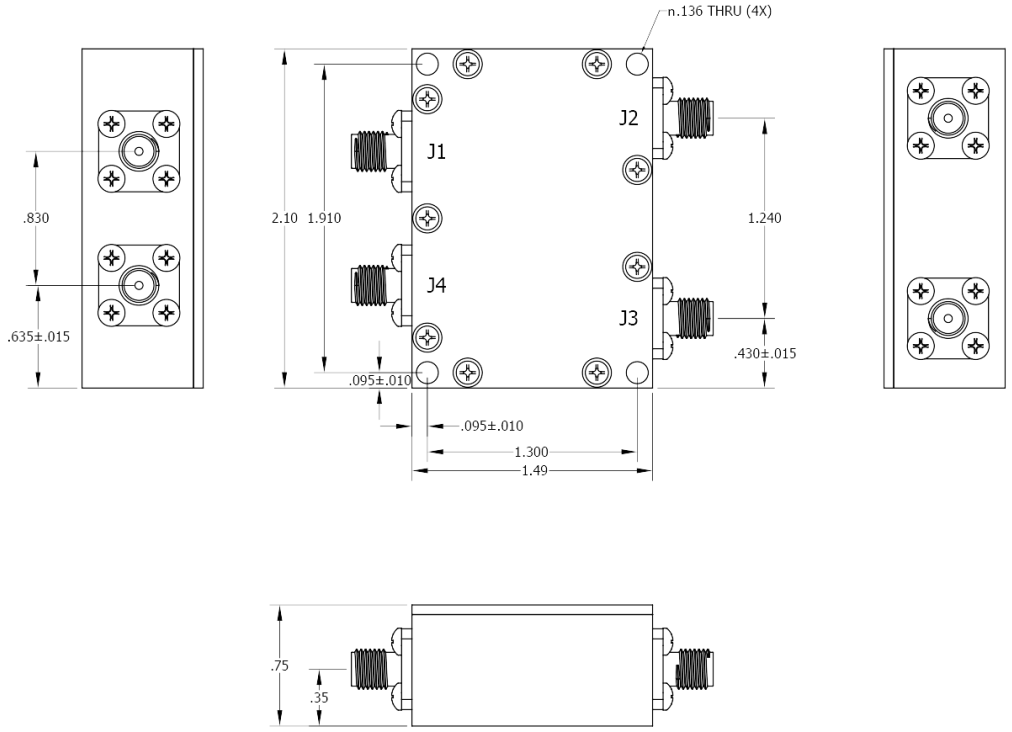


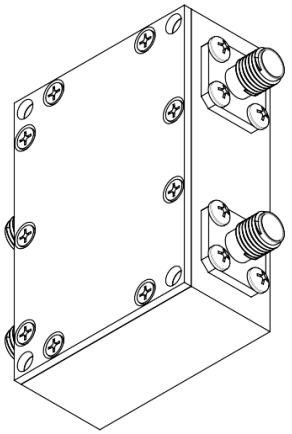
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
1/14/10	-	INITIAL RELEASE	GP	NH	BW
8/11/11	A	ECN 5440	GP	NH	BW
9/15/17	B	ECN 9410	GP		BW





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 • REMOVE ALL BURRS AND SHARP EDGES .01 R MAX • CONCENTRICITY MACHINED DIA: .002 FIM • MACHINE TOOL MISMATCH .003 MAX THIRD ANGLE PROJECTION	DWN	GP	DATE	1/14/2010	WERLATONE | SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
	CHK		DATE		
	ENGR		DATE		TITLE
	APVD		DATE		QH8281-102 3dB Hybrid Coupler
	QA		DATE		SIZE: A | CAGE CODE: 28812 | DWG NO: 20585-500 | REV: B
	RLSE		DATE		SCALE: 1:1 | SHEET 1 OF 1

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