


PRODUCT DATA SHEET
QH8756
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:	100 - 500 MHz
Power:	2000 W CW
Insertion Loss:	0.35 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 3° Max.
Amplitude Balance:	± 0.6 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:	7 lbs.
Size:	21.8 x 2.2 x 2.0"

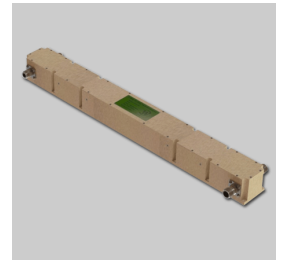
Connector Configurations:

Model	Sum Port (J1)	0°, 90° (J2,J3)	Iso. Load Port
QH8756-41	SC Female	N Female	N Female
QH8756-650	SC Female	SC Female	N Female

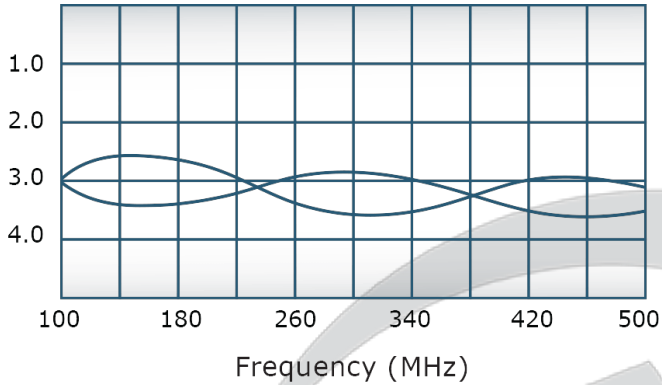
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the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

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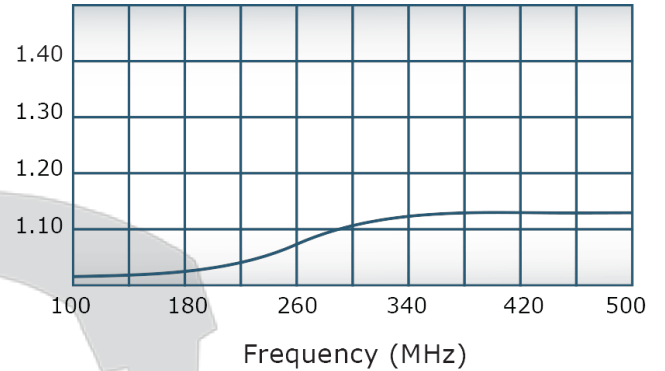
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Performance Data (Specifications subject to change without notice):

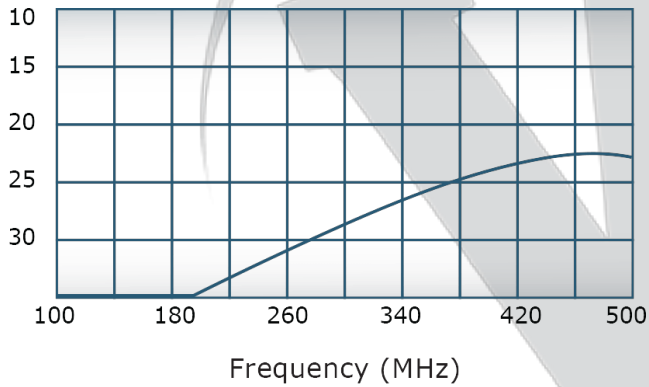
Coupling:



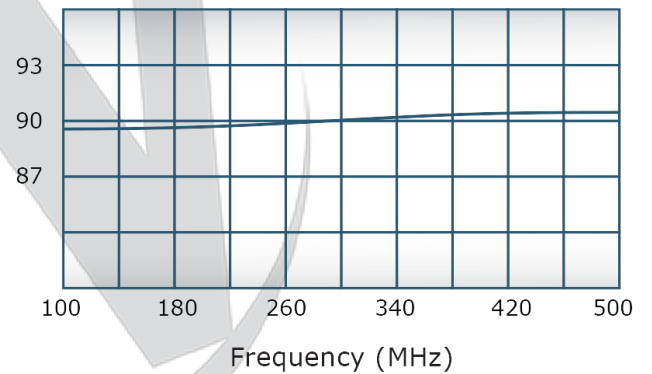
VSWR:



Isolation:

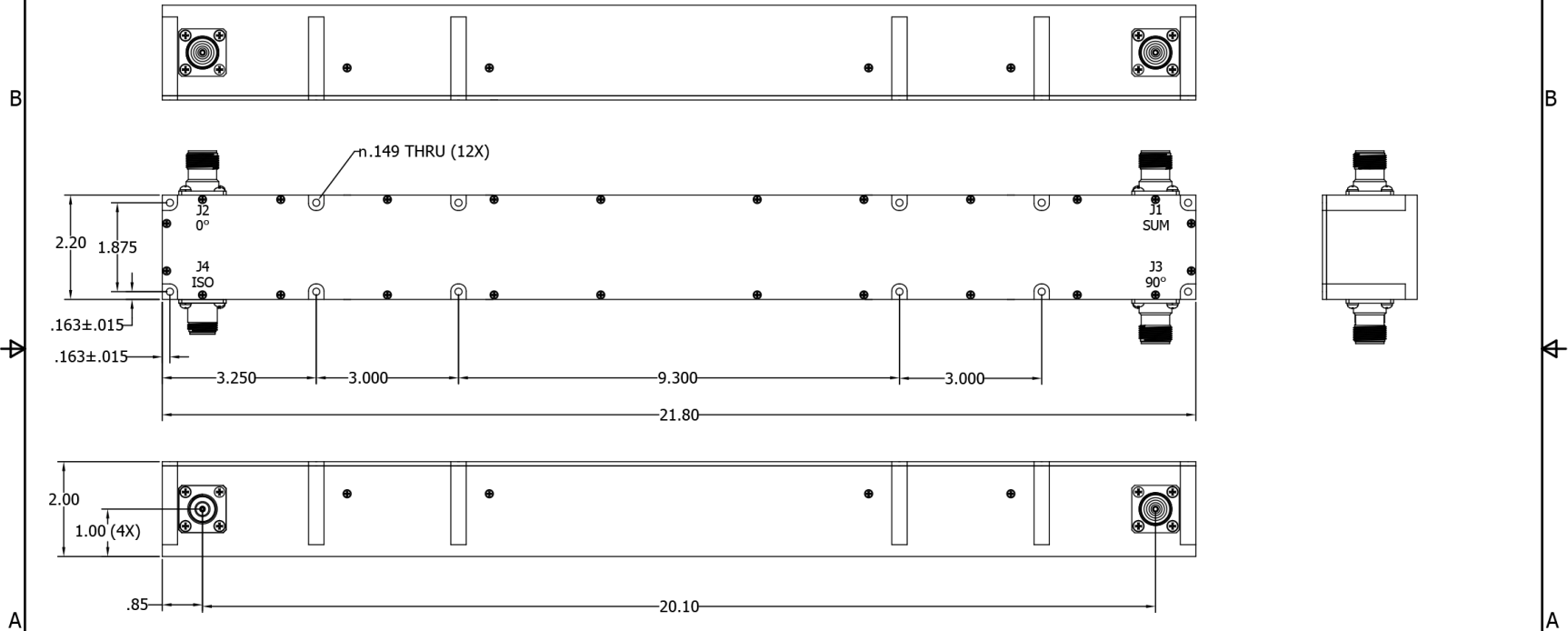


Phase Balance:



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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	12/1/2010	BW



UNLESS OTHERWISE SPECIFIED		DWGN	GP	DATE	12/1/2010	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
• INTERPRET DRAWING LAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING • DIMENSIONS ARE IN INCHES • TOLERANCES: ANGLES ±.2° 3 PL ± .005 2 PL ± .015		CHK	BW	DATE	12/2/2010	
THIRD ANGLE PROJECTION		ENGR	DATE	TITLE		SIZE CAGE CODE DWG NO B 28812 20701-500
		INPR	DATE	REV		
		QA	DATE	REV		
		RLSE	DATE	REV		
		SCALE		1:2		SHEET 1 OF 1

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