


**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 &amp; 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

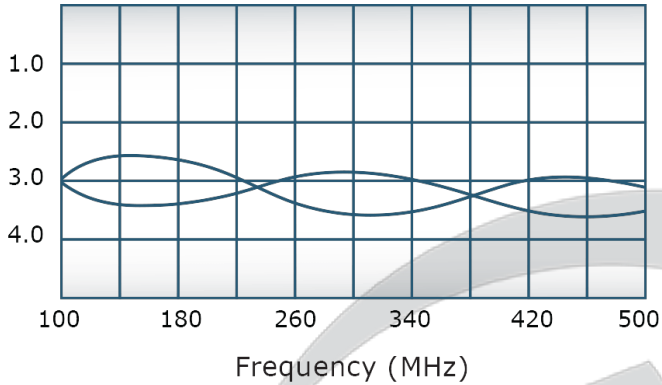
**Werlatone's** breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein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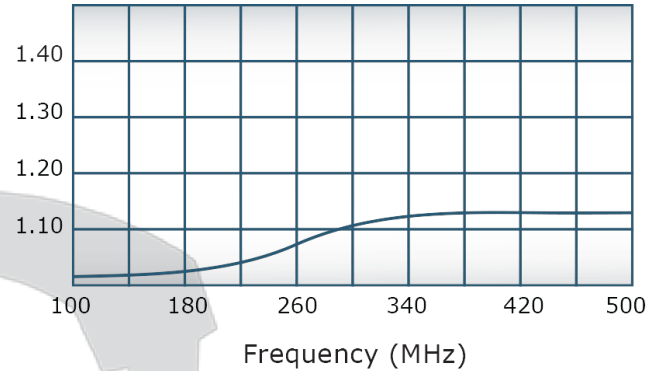
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com


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**QH8756**
**Performance Data (Specifications subject to change without notice):**

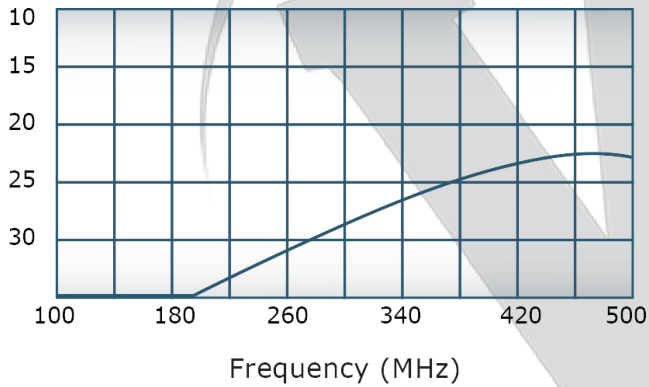
Coupling:



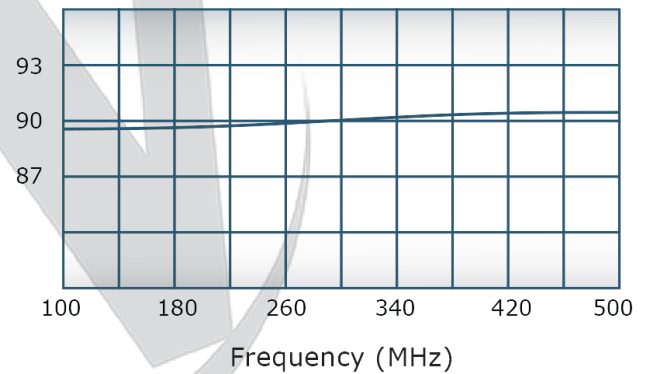
VSWR:



Isolation:



Phase Balance:



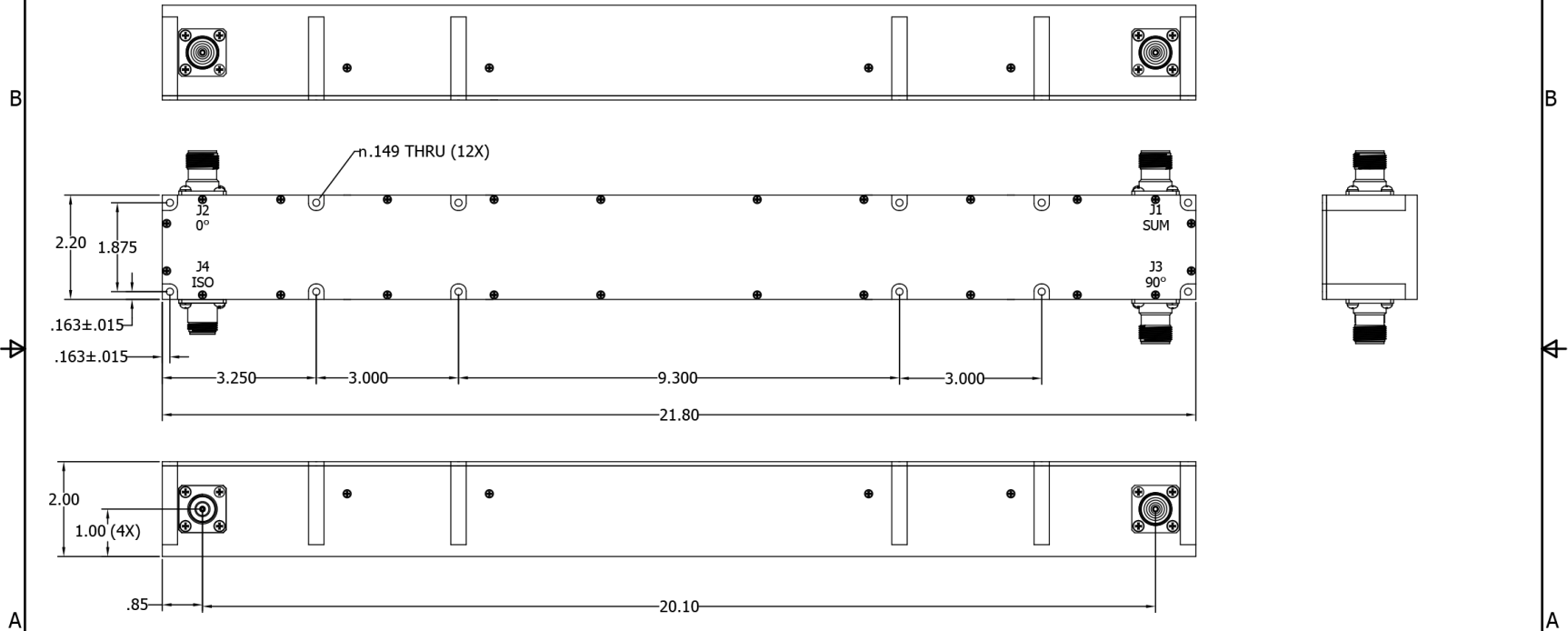
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	12/1/2010	BW



UNLESS OTHERWISE SPECIFIED		DWGN	GP	DATE	12/1/2010	 <b>WERLATONE</b> 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
		INPR		DATE		SIZE
		QA		DATE		CAGE CODE
		RLSE		DATE		DWG NO
						<b>B 28812 20701-500</b>
						SCALE
						1:2
						SHEET 1 OF 1

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