WERLATONE

Model QH8756
90° Hybrids Connectorized



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.

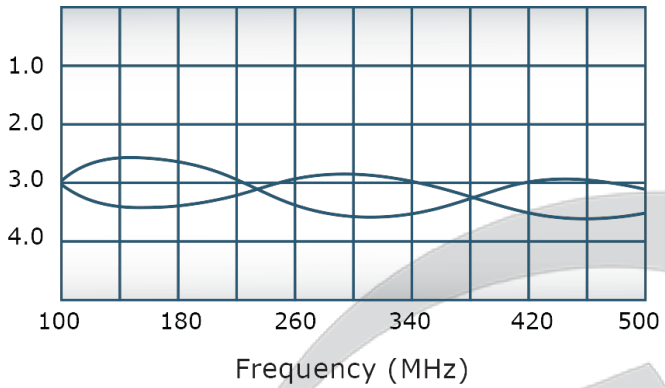
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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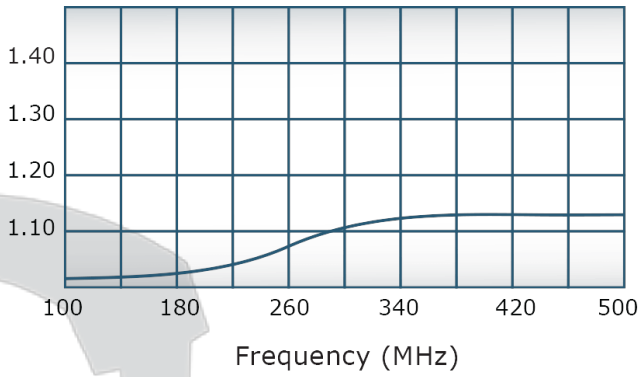


Performance Data (Specifications subject to change without notice):

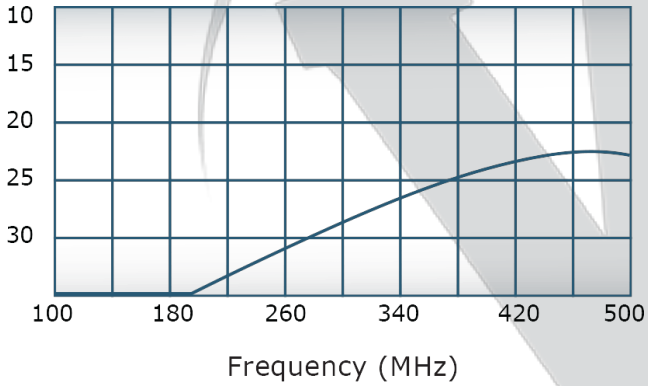
Coupling:



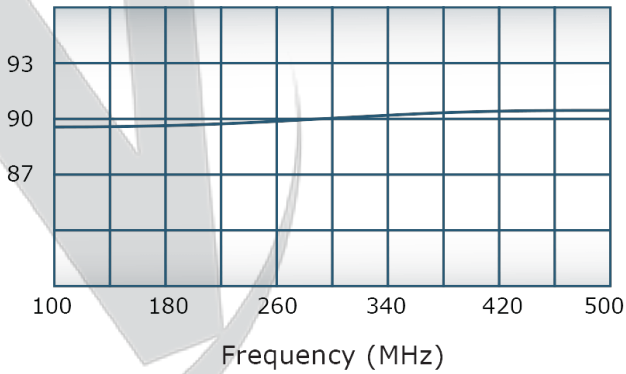
VSWR:



Isolation:



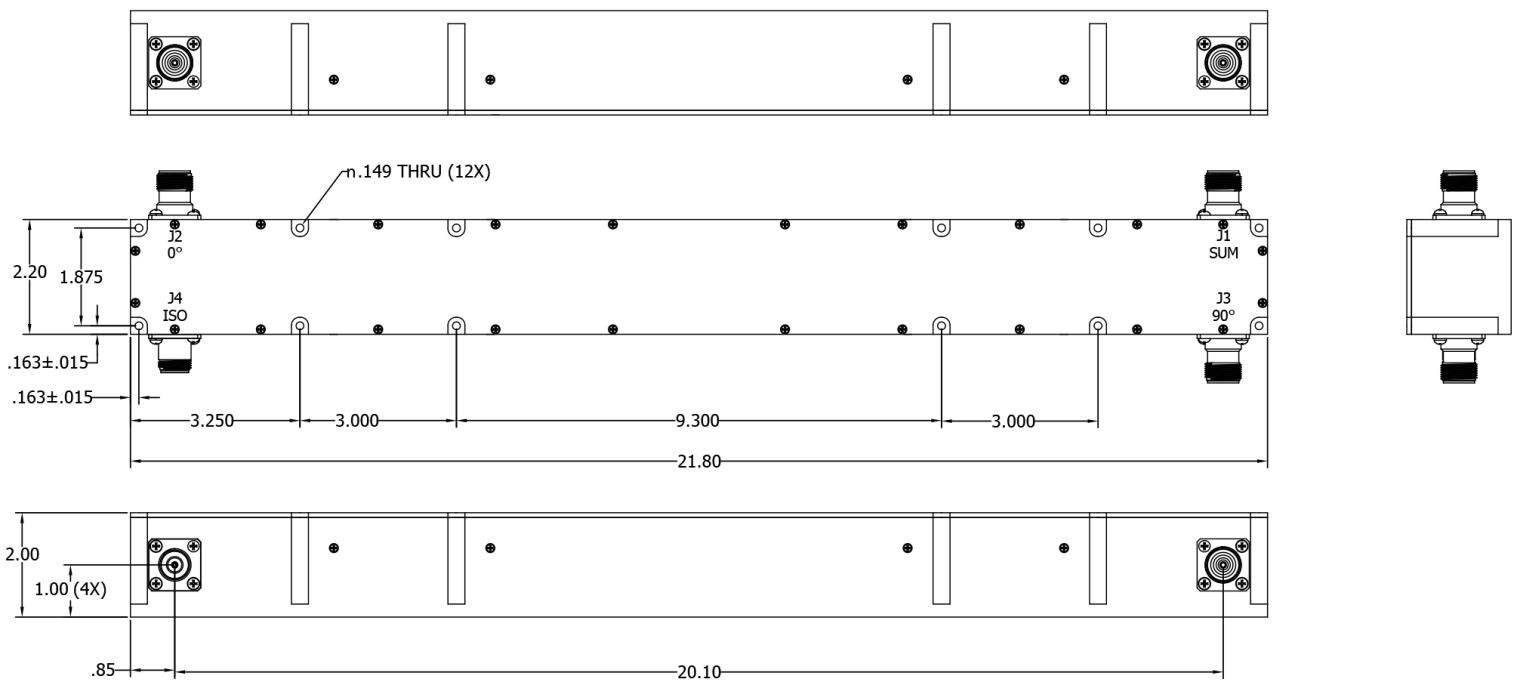
Phase Balance:



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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	12/1/2010	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 • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ±2° 3 PL ± .005 2 PL ± .015	DWN GP	DATE 12/1/2010	WERLATONE SINCE 1965
	CHK BW	DATE 12/2/2010	17 Jon Barrett Rd Patterson, NY 12563
	ENGR	DATE	TITLE
	MFGR	DATE	SIZE B | CAGE CODE 28812 | DWG NO 20701-500 | REV -
	QA	DATE	
THIRD ANGLE PROJECTION	RLSE	DATE	SCALE 1:2 | SHEET 1 OF 1

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