


PRODUCT DATA SHEET
QH9498
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 Excellent Amplitude Balance

Electrical Specifications:

Frequency:	200 - 650 MHz
Power:	200 W CW
Insertion Loss	0.5 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.4 dB Max.
Isolation:	18 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH9498-Pb: Electrodeposited Tin/Lead
Size:	2.8 x 1.25 x 0.16"

Port Configurations:

Input	Output			
	J1	J2	J3	J4
J1	---	Isolated	-3 dB, 0°	-3 dB, -90°
J2	Isolated	---	-3 dB, -90°	-3 dB, 0°
J3	-3 dB, 0°	-3 dB, -90°	---	Isolated
J4	-3 dB, -90°	-3 dB, 0°	Isolated	---

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.

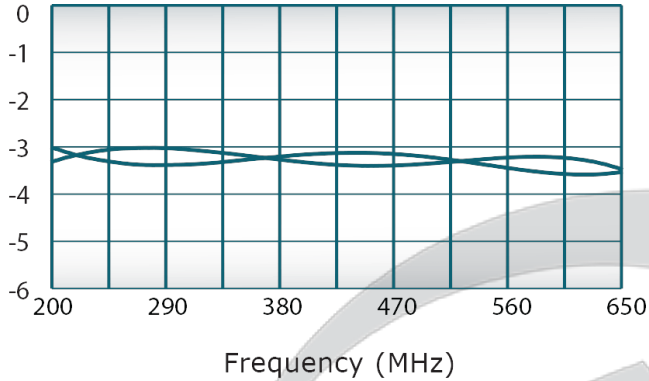


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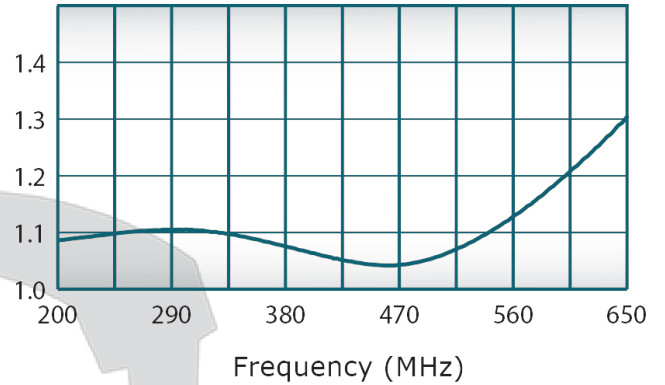
QH9498

Performance Data (Specifications subject to change without notice):

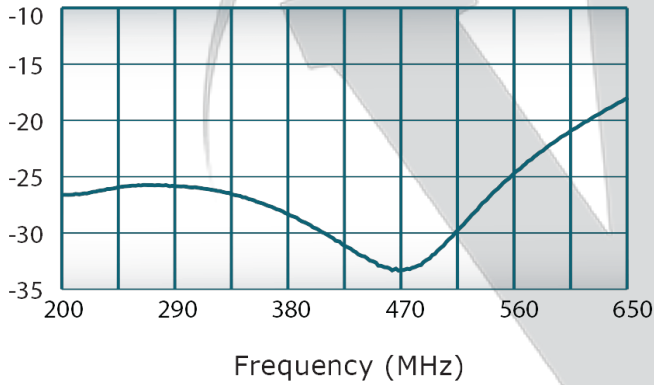
Coupling:



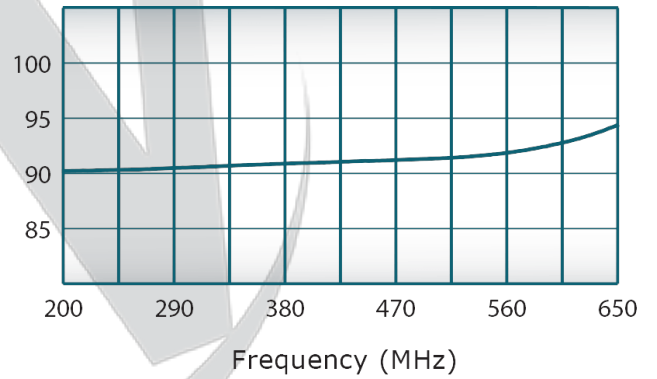
VSWR:



Isolation:



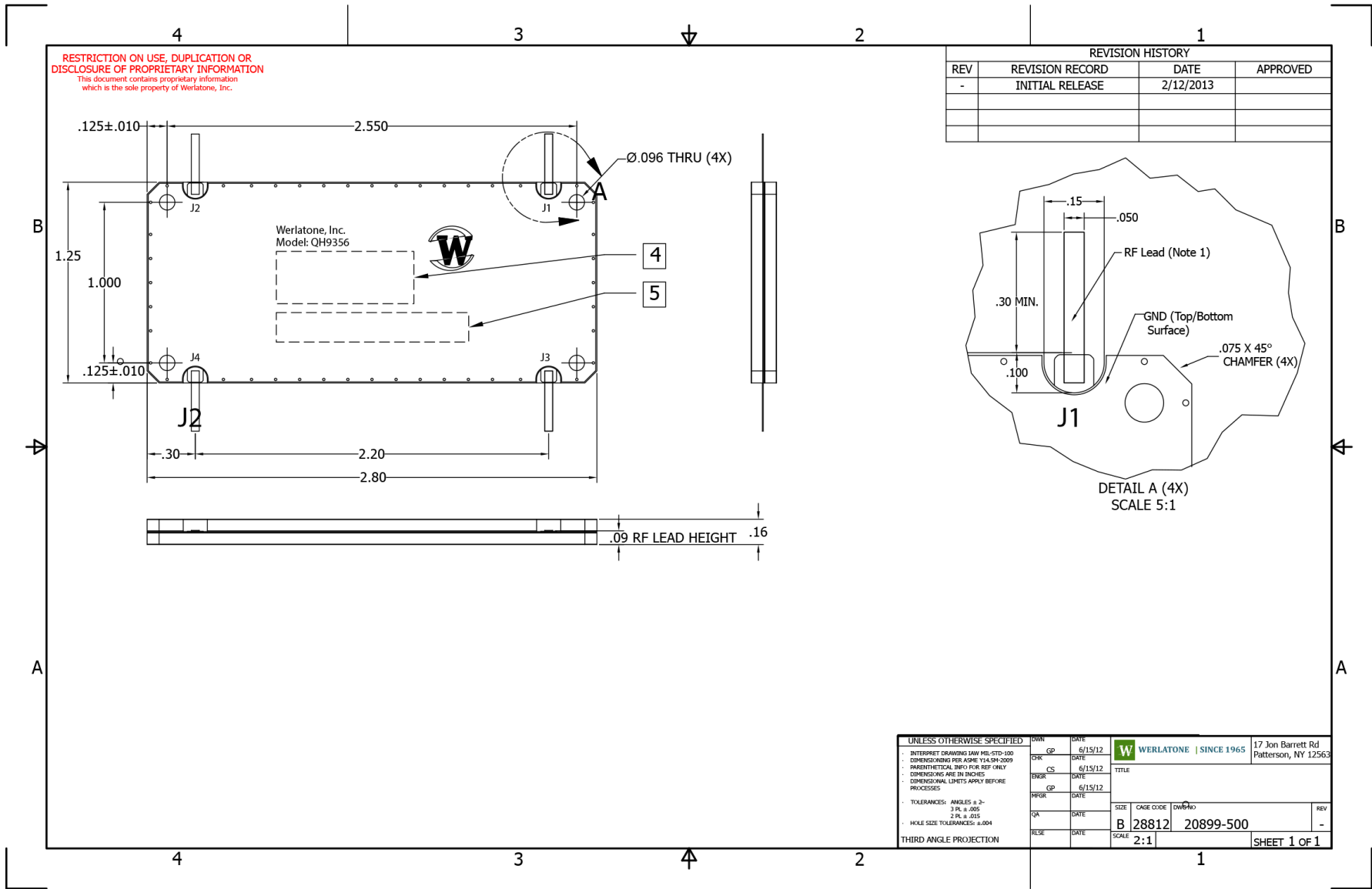
Phase Balance:



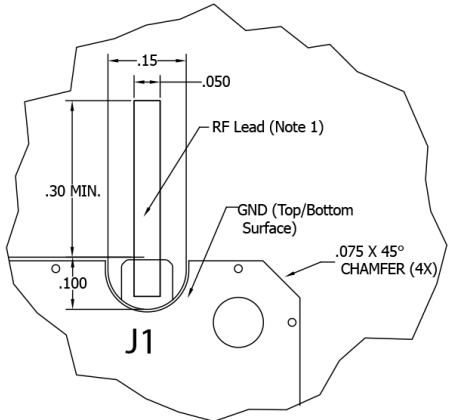
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Werlatone, Inc.

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



REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/12/2013	



DETAIL A (4X)
SCALE 5:1

UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERNET DRAWING IAW MIL-STD-100 DIMENSIONS PER ASME Y14.5M-2009 PARENTHERICAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES DIMENSIONAL LIMITS APPLY BEFORE PROCESSING		CP	6/15/12	
TOLERANCES: ANGLES ± 2° 3 PL ± .005 2 PL ± .015 HOLE SIZE TOLERANCES ± .004		CHK	6/15/12	TITLE
THIRD ANGLE PROJECTION		ENGR	DATE	
		CP	6/15/12	
		MPGR	DATE	
		QA	DATE	SIZE CAGE CODE DWG NO
		RELE	DATE	B 28812 20899-500
			SCALE	2:1
				SHEET 1 OF 1

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