


PRODUCT DATA SHEET
QH7785
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 - 1000 MHz
Power:	100 W CW
Insertion Loss	0.5 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 5° dB Max.
Amplitude Balance:	± 0.6 dB Max.
Isolation:	20 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH7785-Sn: Immersion Tin (RoHS Compliant)
Size:	2.5 x 0.75 x 0.15"

Port Configurations:

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

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

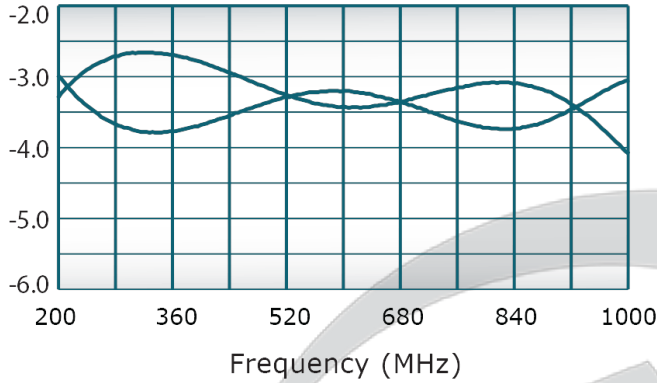


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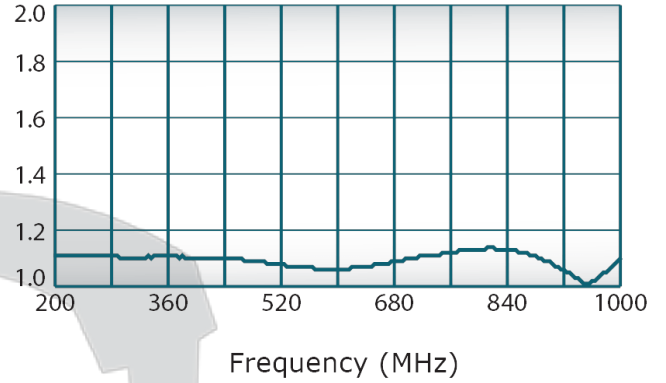
QH7785

Performance Data (Specifications subject to change without notice):

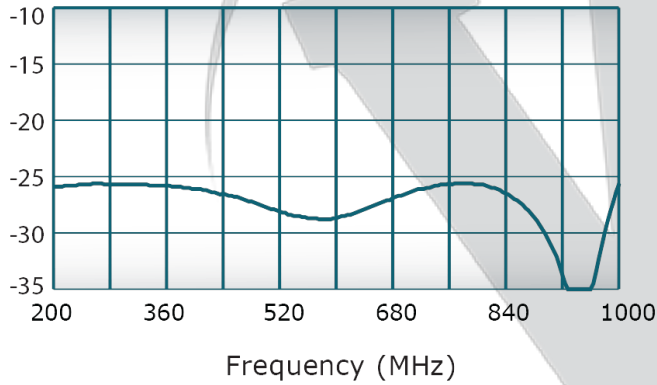
Coupling:



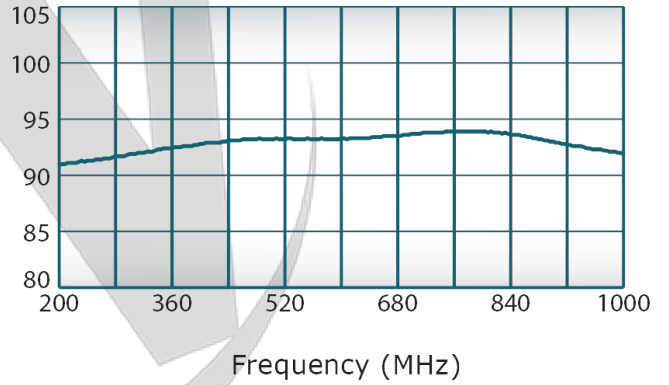
VSWR:



Isolation:



Phase Balance:



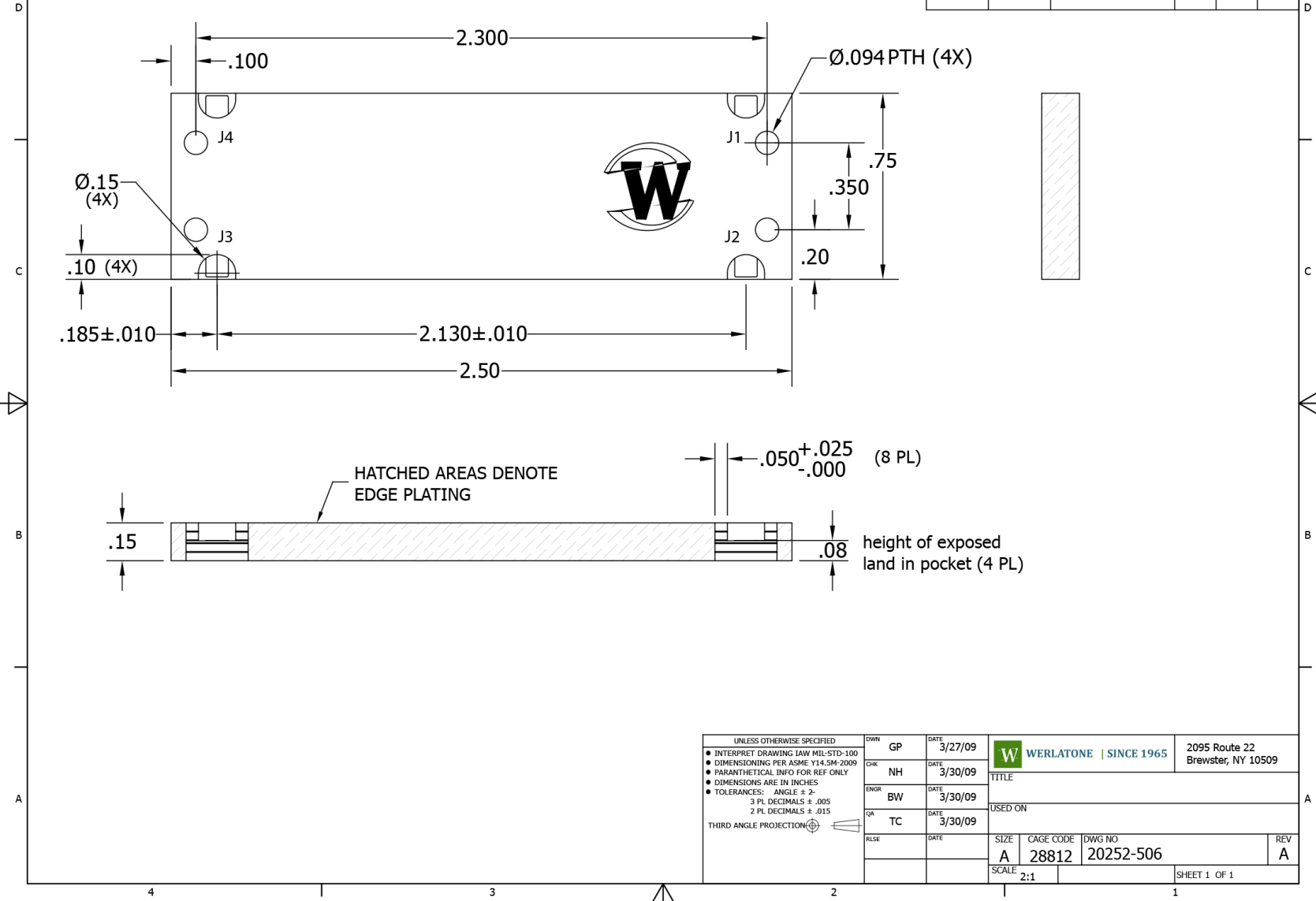
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
3/27/2009	-	INITIAL RELEASE	GP	NH	BW
7/2/2009	A	ECN 4927	GP	NH	BW



UNLESS OTHERWISE SPECIFIED		OWN	GP	DATE	3/27/09	WERLATONE SINCE 1965	2095 Route 22 Brewster, NY 10509
<ul style="list-style-type: none"> ● INTERPRET DRAWING IAW MIL-STD-100 ● DIMENSIONING PER ASME Y14.5M-2009 ● PARANTHETICAL INFO FOR REF ONLY ● DIMENSIONS ARE IN INCHES ● TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015 	CHK	NH	DATE	3/30/09	TITLE		
THIRD ANGLE PROJECTION	ENGR	BW	DATE	3/30/09	USED ON		
	QA	TC	DATE	3/30/09	SIZE	A	
	PLSE		DATE		CAGE CODE	28812	
					DWG NO	20252-506	
					REV	A	
					SCALE	2:1	
							SHEET 1 OF 1

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