



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

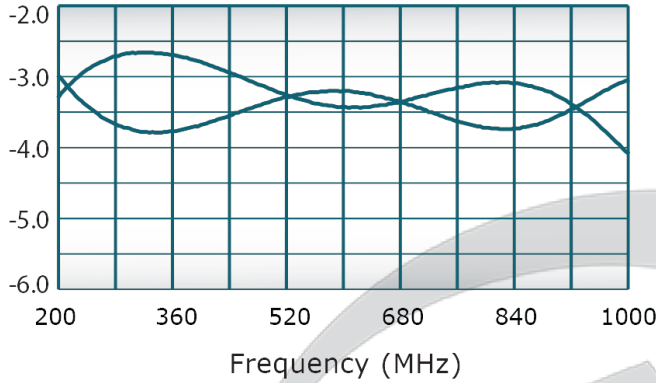


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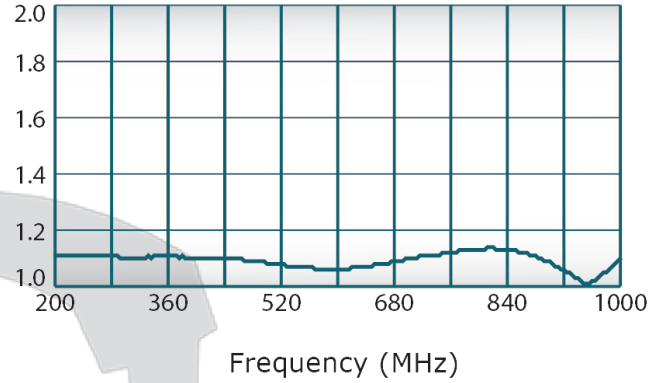
QH7785

Performance Data (Specifications subject to change without notice):

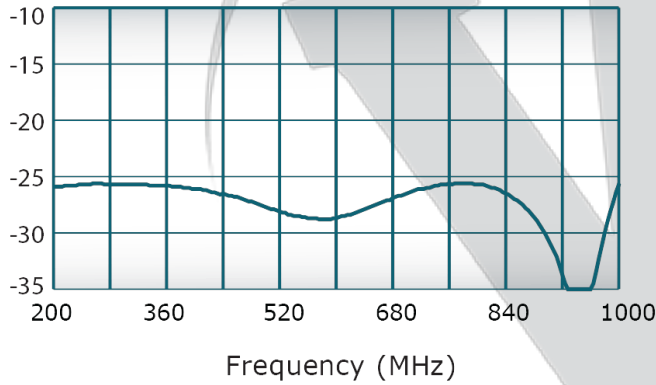
Coupling:



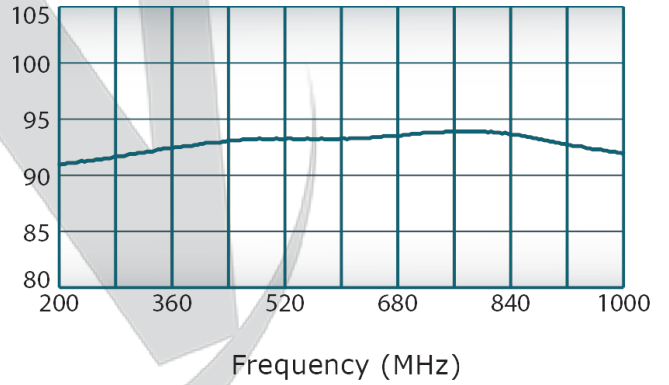
VSWR:



Isolation:



Phase Balance:



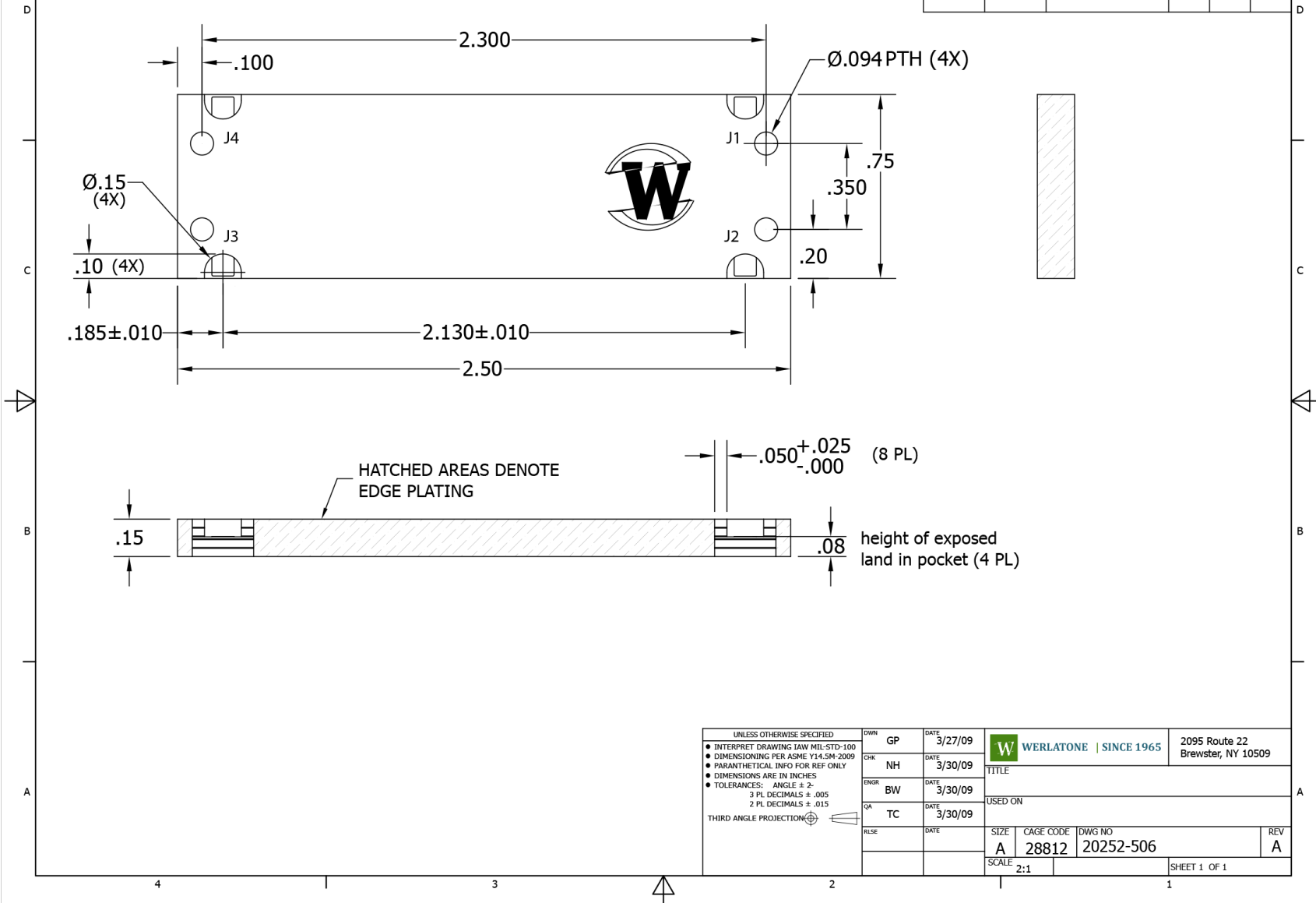
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
3/27/2009	-	INITIAL RELEASE	GP	NH	BW
7/2/2009	A	ECN 4927	GP	NH	BW



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							
	ENGR	BW	DATE	3/30/09	USED ON							
	QA	TC	DATE	3/30/09	SIZE	A	CAGE CODE	28812	DWG NO	20252-506	REV	A
	PLSE		DATE		SCALE	2:1			SHEET 1 OF 1			

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