WERLATONE

Model QH7785
90° Hybrids Surface Mount (SMT) & Drop



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.

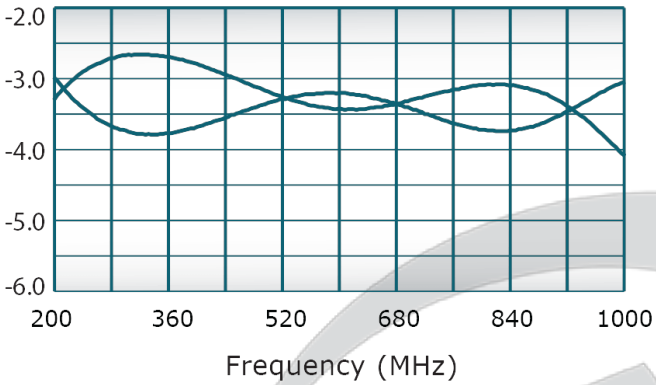
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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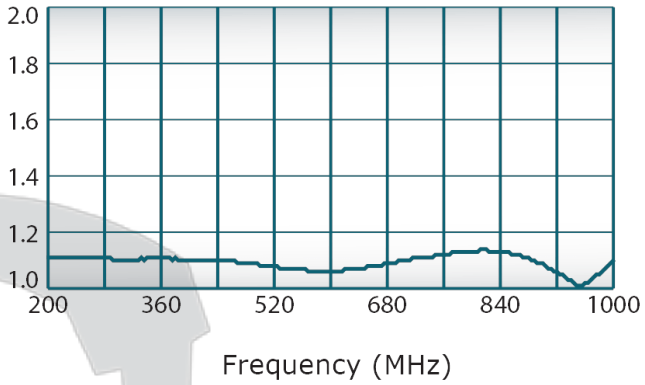


Performance Data (Specifications subject to change without notice):

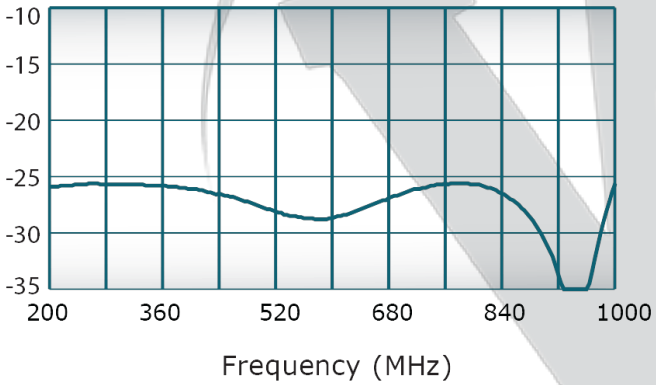
Coupling:



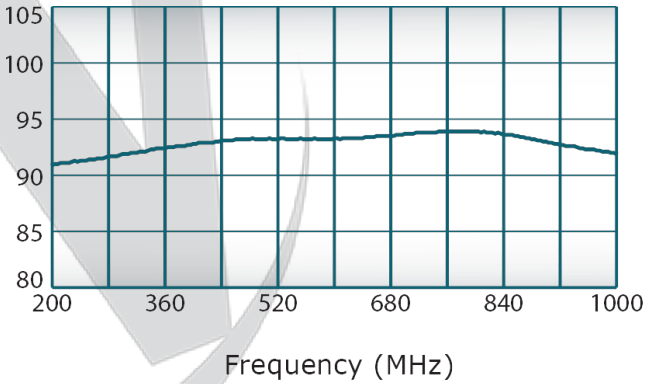
VSWR:



Isolation:



Phase Balance:



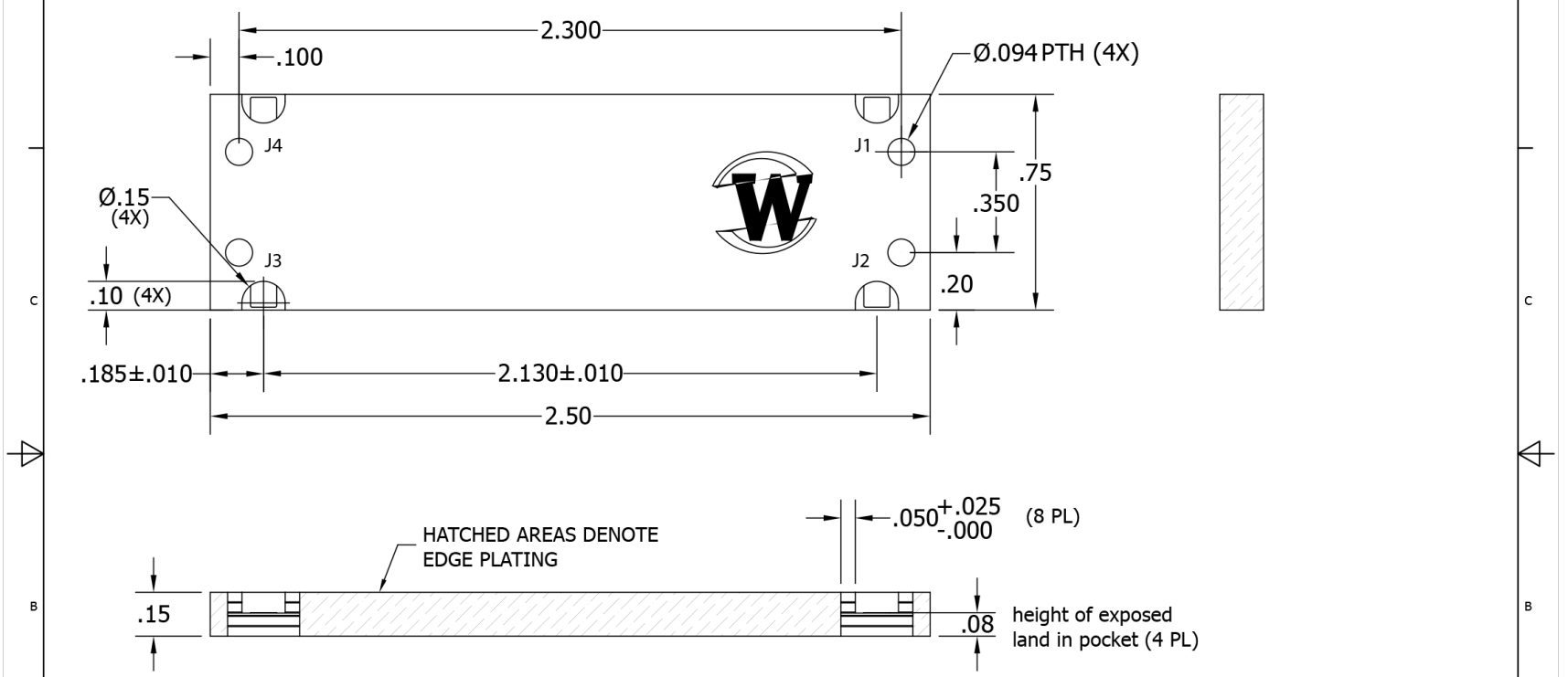
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
3/27/2009	-	INITIAL RELEASE	GP	NH	BW
7/2/2009	A	ECN 4927	GP	NH	BW



UNLESS OTHERWISE SPECIFIED				
• INTERPRET DRAWING IAW MIL-STD-100	DWN	GP	DATE	3/27/09
• DIMENSIONING PER ASME Y14.5M-2009	CHK	NH	DATE	3/30/09
• PARANTHETICAL INFO FOR REF ONLY	ENGR	BW	DATE	3/30/09
• DIMENSIONS ARE IN INCHES	QA	TC	DATE	3/30/09
• TOLERANCES: ANGLE ± 2- 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015	RLSE		DATE	
THIRD ANGLE PROJECTION				

WERLATONE | SINCE 1965
2095 Route 22
Brewster, NY 10509

TITLE

USED ON

SIZE	CAGE CODE	DWG NO	REV
A	28812	20252-506	A

SCALE 2:1 SHEET 1 OF 1

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