WERLATONE

Model QH7862
90° Hybrids Surface Mount (SMT) & Drop

PRODUCT DATA SHEET **QH7862**

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:	450 - 2500 MHz
Power:	125 W CW
Insertion Loss	0.5 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 5° dB Max.
Amplitude Balance:	± 0.45 dB Max.
Isolation:	18 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH7862-Pb: Electrodeposited Tin/Lead QH7862-Sn: Immersion Tin (RoHS Compliant) QH7862-Ag: Immersion Silver (RoHS Compliant) QH7862-Au (ENIG)
Weight:	6 grams
Size:	1.5 x 1.1 x 0.095''

Port Configurations:

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

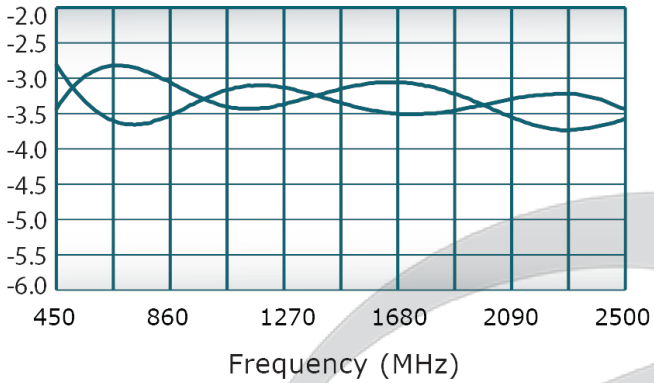
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the 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

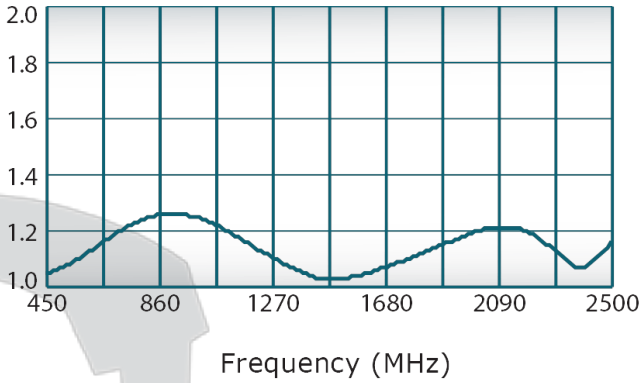
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Performance Data (Specifications subject to change without notice):

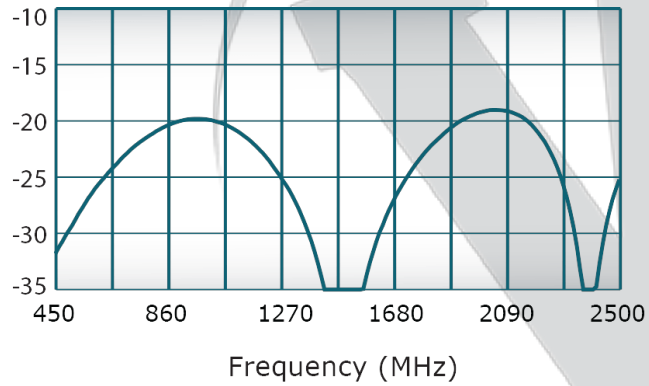
Coupling:



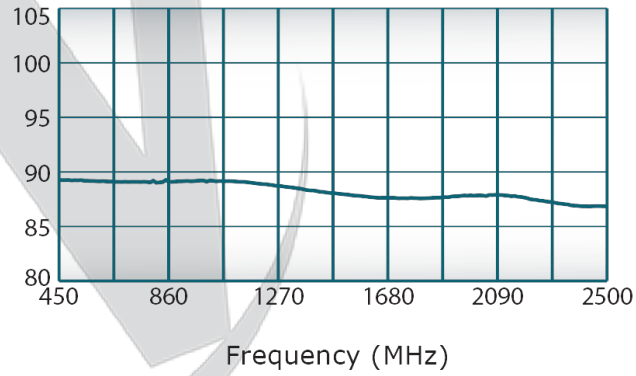
VSWR:



Isolation:



Phase Balance:

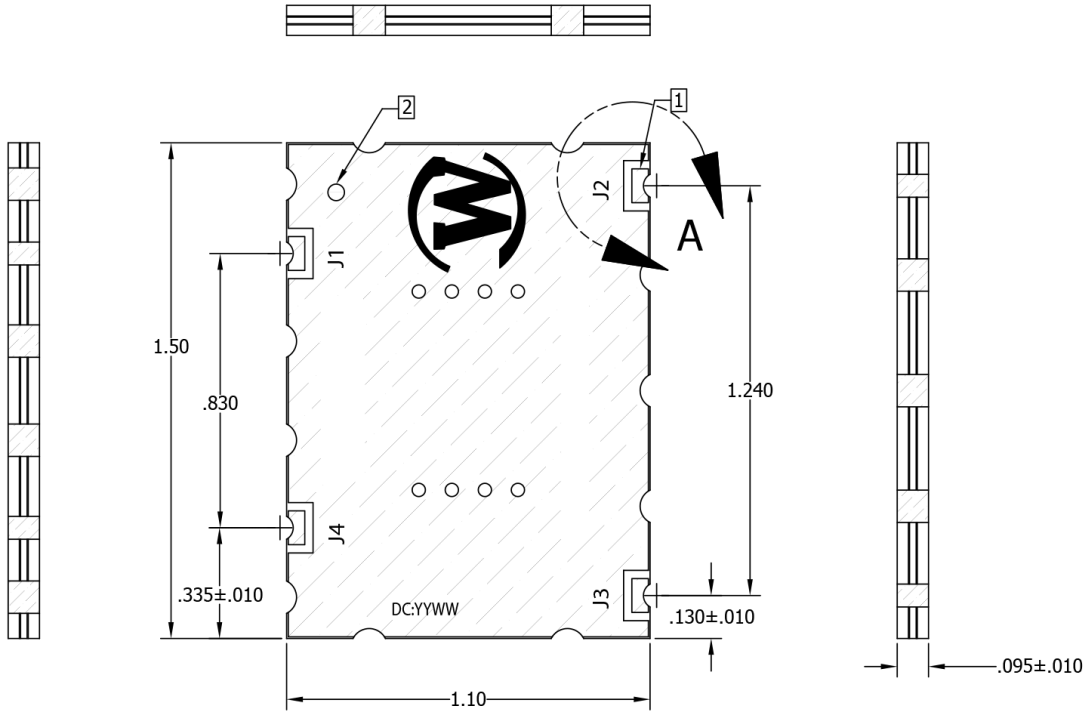


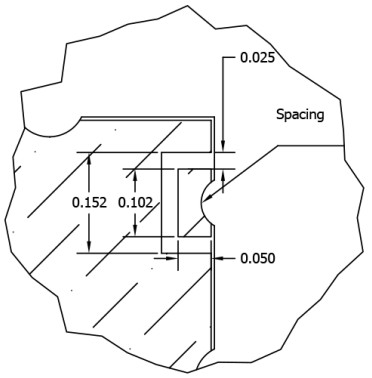
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
4/4/2007	A	ECN 4191	GP	GP	BW
8/7/2007	B	ECN 4294	GP	GP	BW
6/22/2009	C	ECN 4993	GP	GP	BW
9/8/2010	D	ECN 5222	GP	GP	BW
1/18/2013	E	ECN 7956	GP	NH	BW





DETAIL A (4X)
SCALE 4:1

UNLESS OTHERWISE SPECIFIED
· 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
THIRD ANGLE PROJECTION

DWN	GP	6/22/2009
CHK	NH	6/22/2009
ENGR	BW	6/22/2009
QA		
RLSE		

WERLATONE | SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE
USED ON

SIZE	CAGE CODE	DWG NO	REV
A	28812	20306-500	E

SCALE 2:1 SHEET 1 OF 1

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