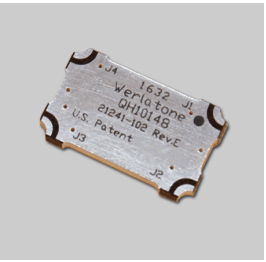
WERLATONE

Model QH10148
90° Hybrids Surface Mount (SMT) & Drop



PRODUCT DATA SHEET **QH10148**

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:	2000 - 6000 MHz
Power:	100 W CW
Insertion Loss	0.3 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	± 7° dB Max.
Amplitude Balance:	± 0.5 dB Max.
Isolation:	20 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH10148-Ag: Immersion Silver (RoHS) QH10148-Pb: Electrodeposited Tin/Lead
Size:	0.744 x 0.450 x 0.079"
Weight:	1.4 oz

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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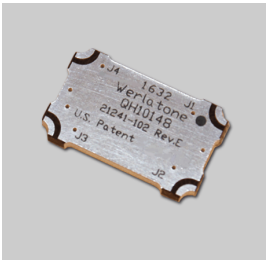
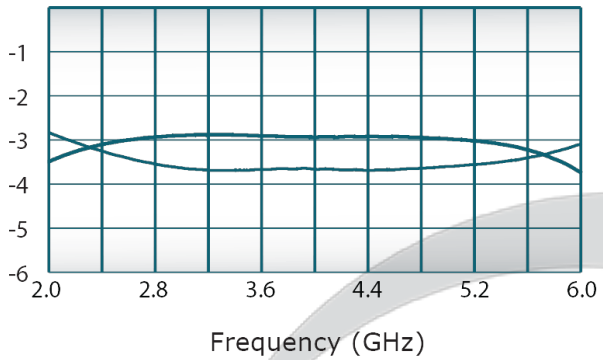
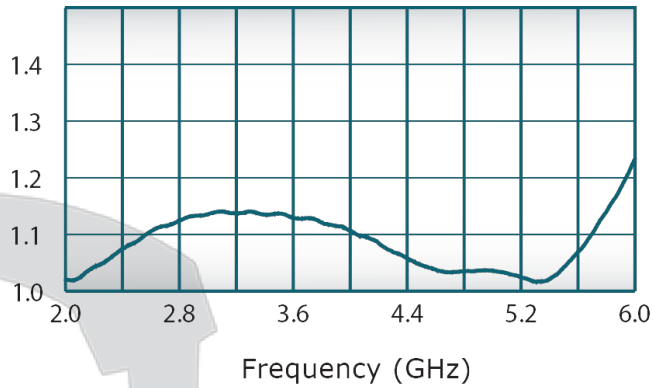


Performance Data (Specifications subject to change without notice):

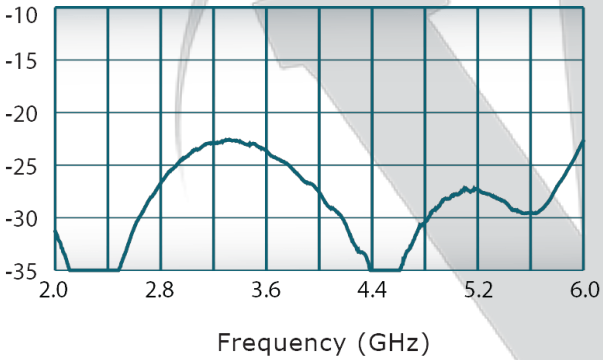
Coupling:



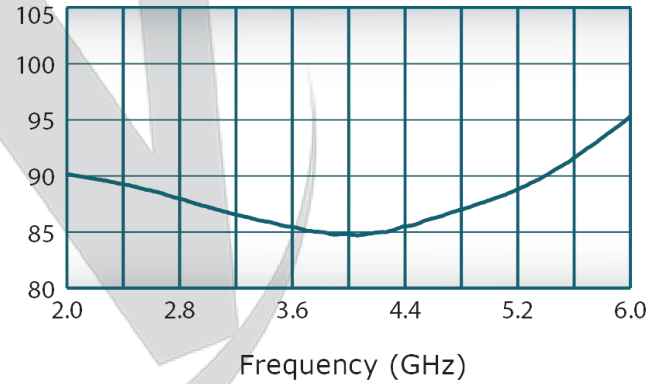
VSWR:



Isolation:



Phase Balance:



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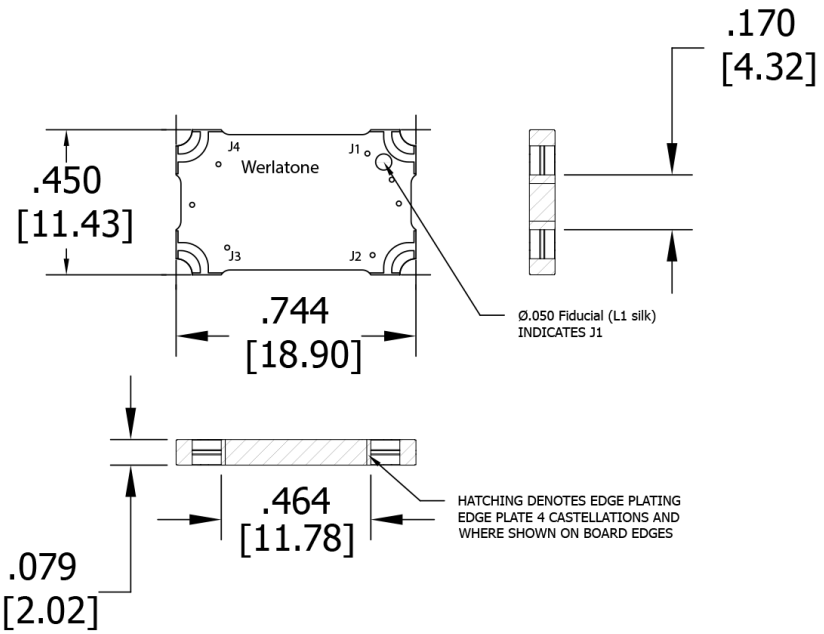
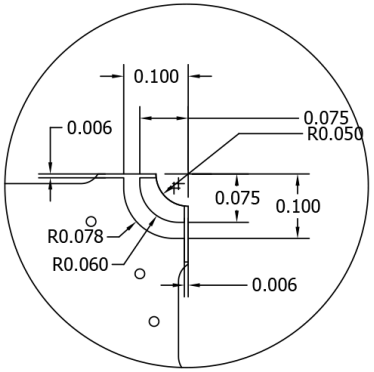
REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/12/2015	BW
A	ECN 8808	4/21/15	BW





DETAIL A (4X)
SCALE 4:1

UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARENTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES [mm]
- DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- TOLERANCES: ANGLES ± 2-
  3 PL ± .010 [.25]
  2 PL ± .015 [.4]

THIRD ANGLE PROJECTION

DWN	GP	DATE 4/21/15
CHK		DATE
ENGR		DATE
MFGR		DATE
QA		DATE
RLSE		DATE

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

TITLE

SIZE	CAGE CODE	DWG NO	REV
A	28812	21241-500	A

SCALE 2:1 SHEET 1 OF 1

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