
**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

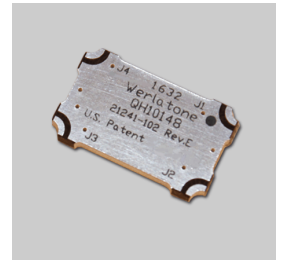
**Port Configurations:**

<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>
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

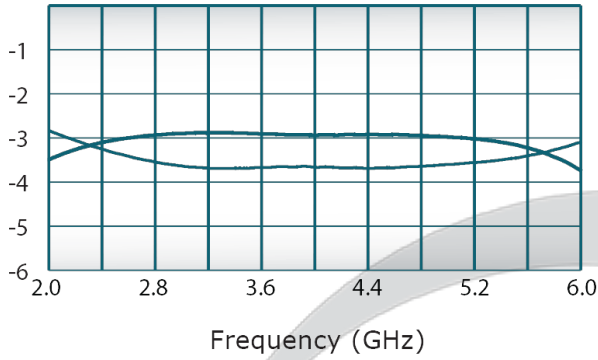


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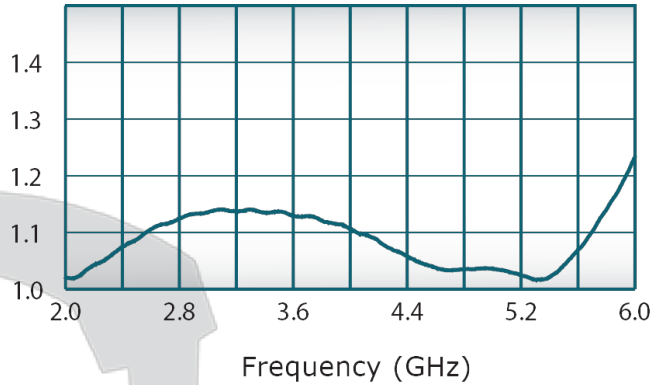
QH10148

**Performance Data (Specifications subject to change without notice):**

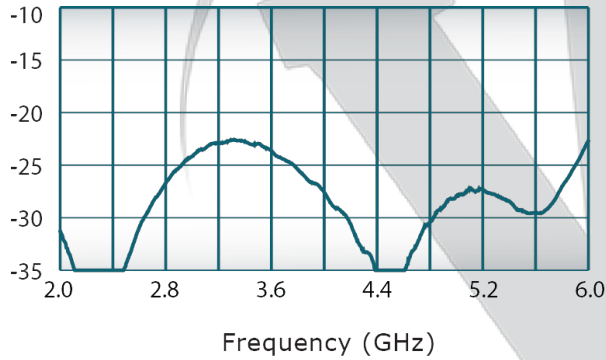
Coupling:



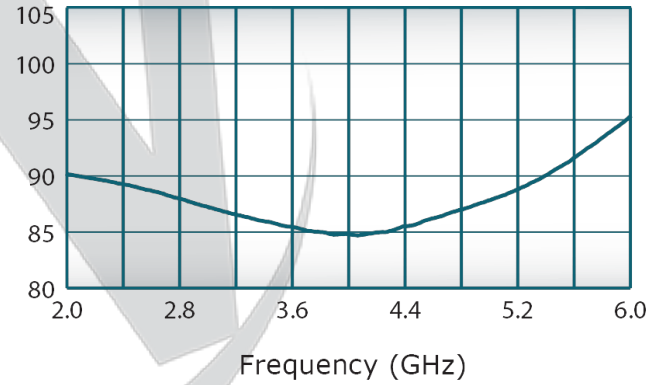
VSWR:



Isolation:



Phase Balance:



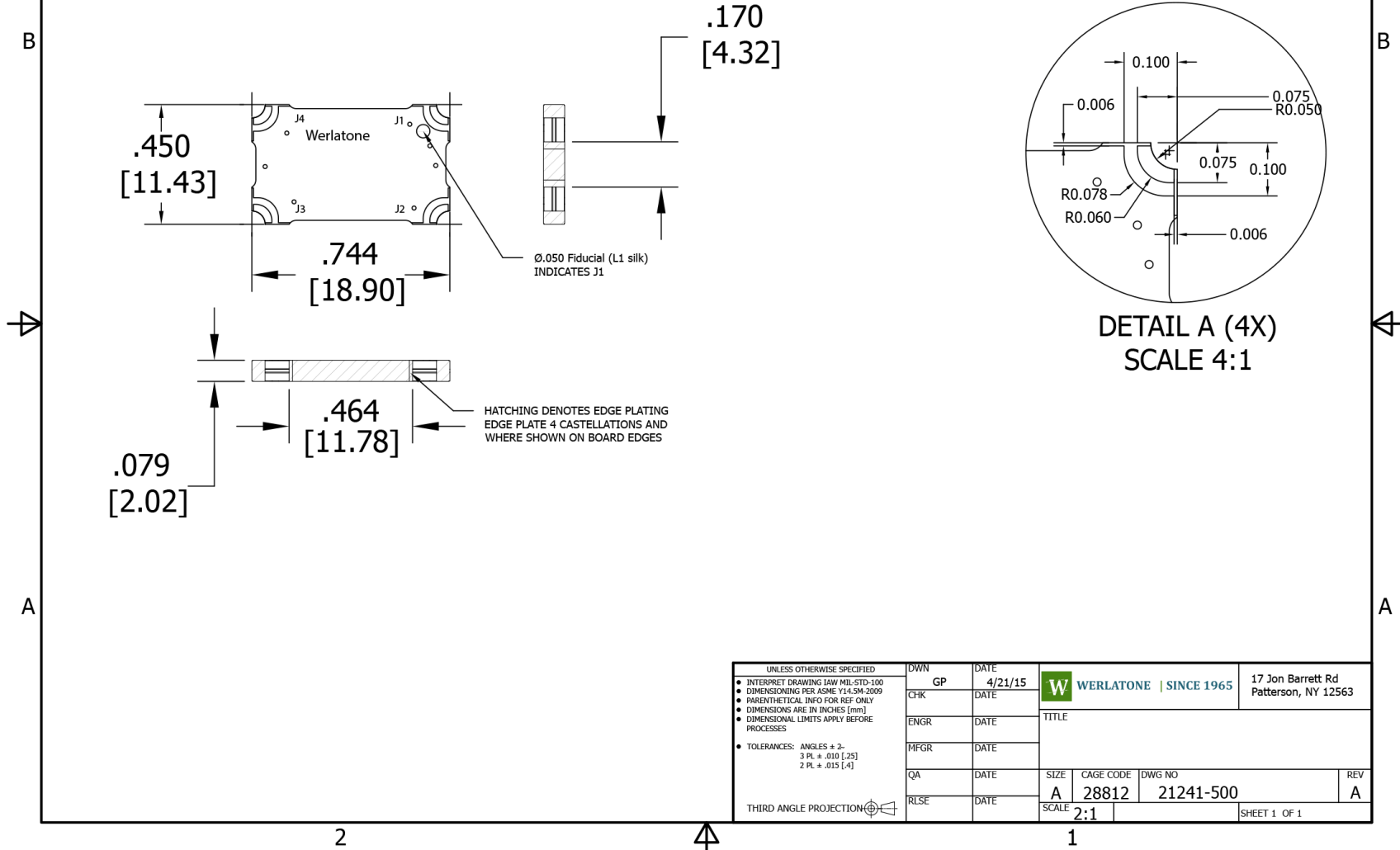
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/12/2015	BW
A	ECN 8808	4/21/15	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE   SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563		
<ul style="list-style-type: none"> <li>● INTERPRET DRAWING LAW MIL-STD-100</li> <li>● DIMENSIONING PER ASME Y14.5M-2009</li> <li>● PARENTHETICAL INFO FOR REF ONLY</li> <li>● DIMENSIONS ARE IN INCHES [mm]</li> <li>● DIMENSIONAL LIMITS APPLY BEFORE PROCESSES</li> </ul>		GP	4/21/15				
		CHK	DATE	TITLE			
		ENGR	DATE				
		MFGR	DATE				
		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		RLSE	DATE	A	28812	21241-500	A
THIRD ANGLE PROJECTION		SCALE		2:1	SHEET 1 OF 1		

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