
**PRODUCT DATA SHEET**
**QH10541**
**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:	700 - 6000 MHz
Power:	150 W CW
Insertion Loss	0.5 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 1.5 dB Max. (700-900 MHz) ± 0.6 dB Max. (900-6000 MHz)
Isolation:	17 dB Min.

**Mechanical Specifications:**

Type:	Surface Mount
Plating Options:	QH10541-Ag: Immersion Silver (RoHS)
Size:	0.66 x 0.86 x 0.09"
Operating Temperature:	-55°C to +75°C
Weight:	0.1 lb

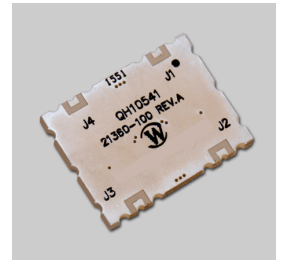
**Port Configurations:**

<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

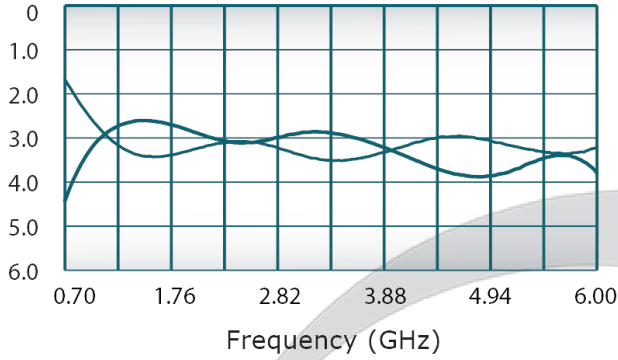


PRODUCT DATA SHEET

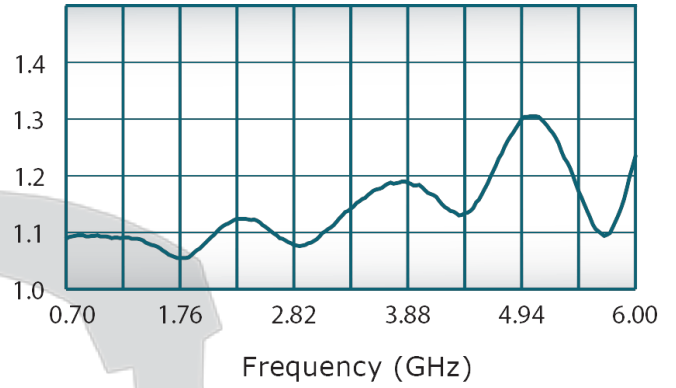
QH10541

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

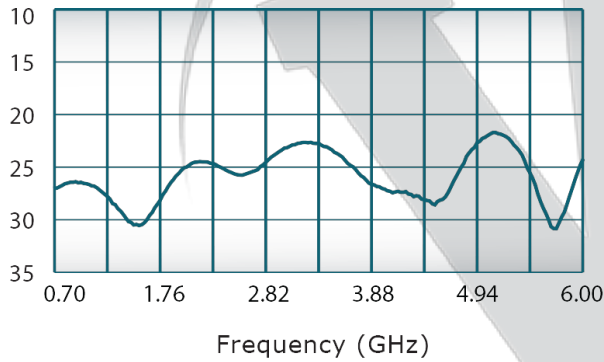
Coupling:



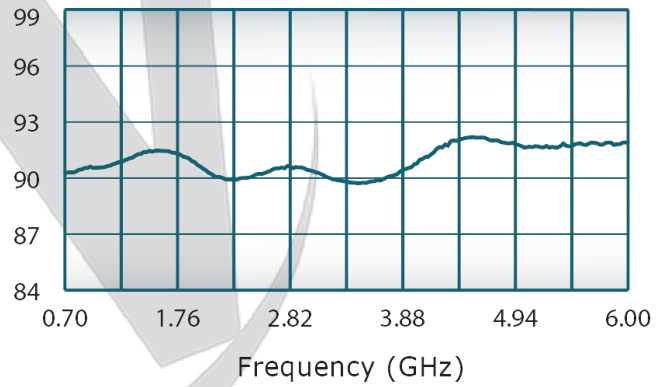
VSWR:



Isolation:



Phase Balance:



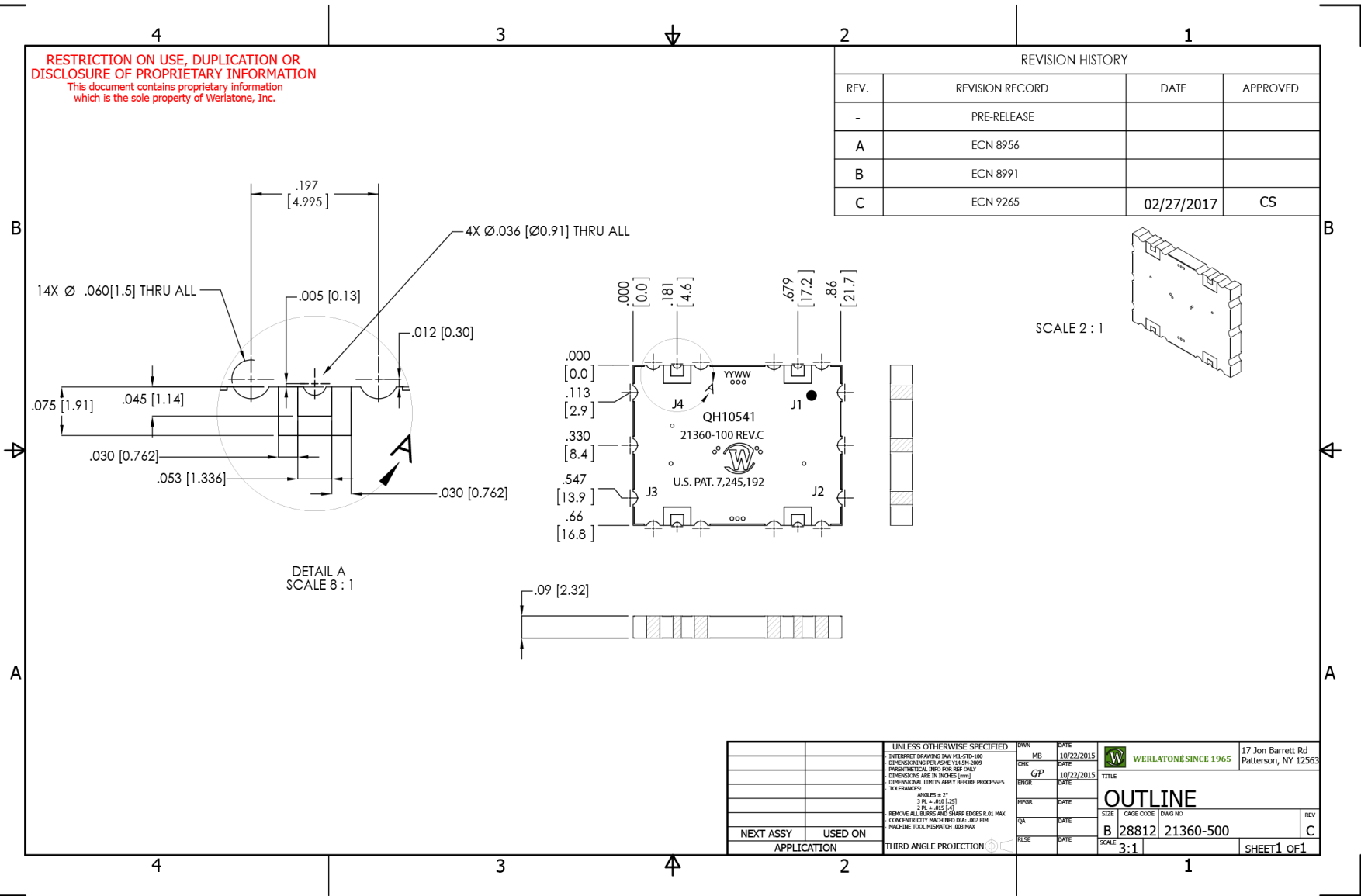
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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	PRE-RELEASE		
A	ECN 8956		
B	ECN 8991		
C	ECN 9265	02/27/2017	CS



UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE		
DIMENSIONS ARE PER ASME Y14.5M-2009		GP	DATE	TITLE	
DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE	OUTLINE	
DIMENSIONAL UNITS APPLY BEFORE PROCESSES		MPGR	DATE	SIZE	CAGE CODE (DWG NO)
TOLERANCES:		QA	DATE	B	28812 21360-500
ANGLES = 3°		RELE	DATE	SCALE	3:1
3 RL ± .010 [25]					
2 RL ± .015 [40]					
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX					
CONCENTRICITY FRACTURED DIA: .002 FPM					
MACHINE TOOL MISMATCH: .003 MAX					
NEXT ASSY	USED ON	THIRD ANGLE PROJECTION			REV
APPLICATION					C
					SHEET 1 OF 1

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