
**PRODUCT DATA SHEET**
**QH7644**
**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:	500 - 2500 MHz
Power:	150 W CW
Insertion Loss	0.55 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.6 dB Max.
Isolation:	19 dB Min.

**Mechanical Specifications:**

Type:	Surface Mount
Plating Options:	QH7644-Sn: Immersion Tin (RoHS) QH7644-Ag: Immersion Silver (RoHS) QH7644-Au: ENIG (RoHS)
Size:	1.65 x 1.1 x 0.09"
Weight:	0.1 lb

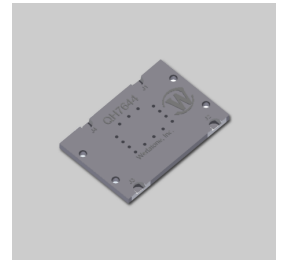
**Port Configurations:**

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

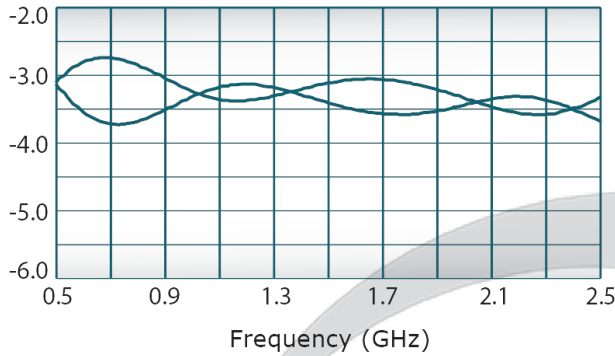


## PRODUCT DATA SHEET

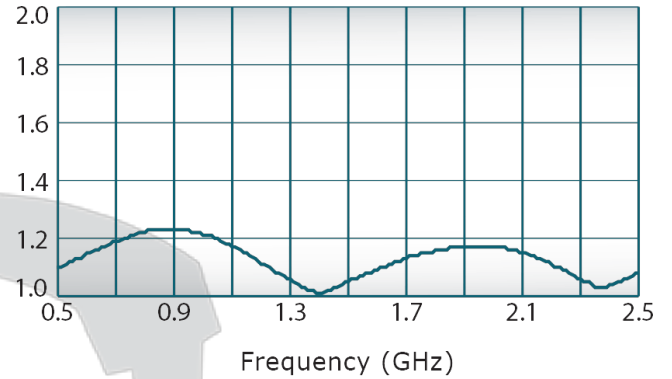
QH7644

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

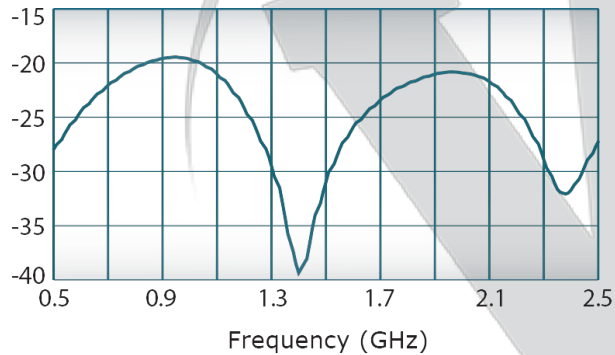
Coupling:



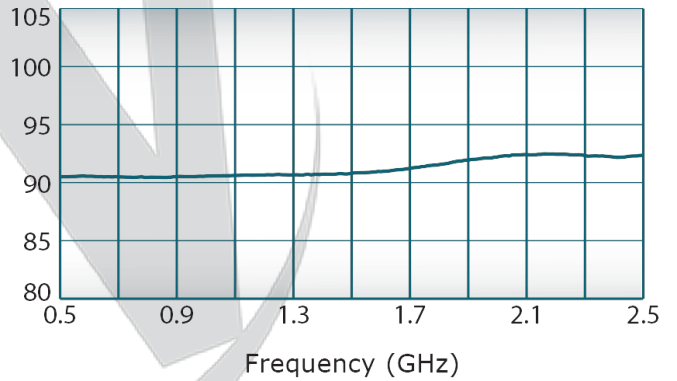
VSWR:



Isolation:



Phase Balance:



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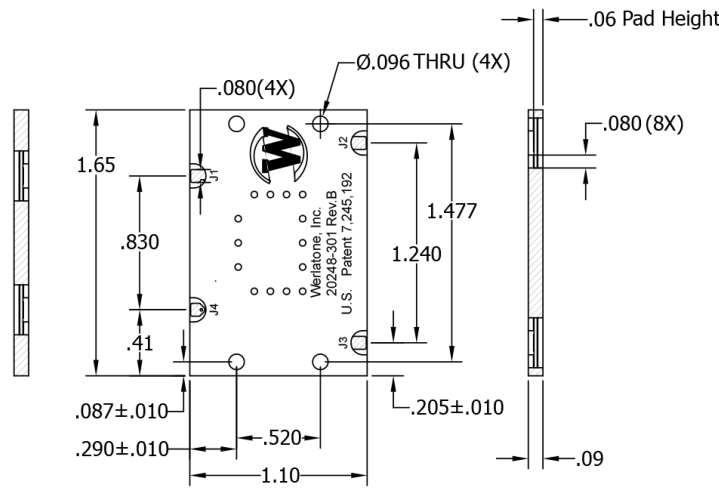
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
8/30/2006	-	INITIAL RELEASE	GP	NH	BW
10/6/2009	A	ECN 4979	GP	NH	BW
9/8/2010	B	ECN 5313	GP	NH	BW

Hatched Areas Denote Edge Plating



UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING LAW MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARANETRIICAL INFO FOR REF ONLY DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015 THIRD ANGLE PROJECTION	DWN	DATE	<b>WERLATONE   SINCE 1965</b>		17 Jon Barrett Rd Patterson, NY 12563
	CHK	DATE	TITLE		
	ENGR	DATE	USED ON		
	QA	DATE			
RLSE	DATE	SIZE	CAGE CODE	DWG NO	REV
		A	28812	20248-500	B
		SCALE	1:1		SHEET 1 OF 1

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