
**PRODUCT DATA SHEET**
**QH7622**
**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 - 3000 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:	QH7622-Sn: Immersion Tin (RoHS) QH7622-Ag: Immersion Silver (RoHS) QH7622-Au: ENIG (RoHS)
Size:	1.65 x 1.1 x 0.09"
Weight:	0.1 lb

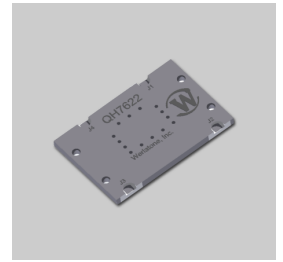
**Port Configurations:**

<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.

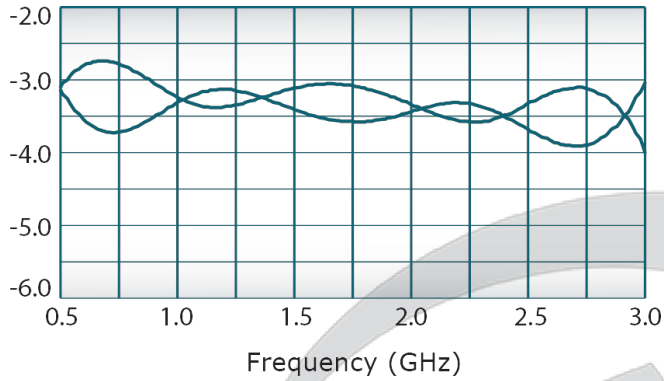
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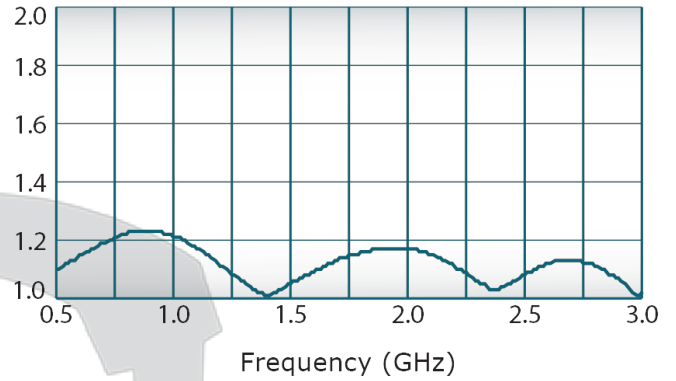


## Performance Data (Specifications subject to change without notice):

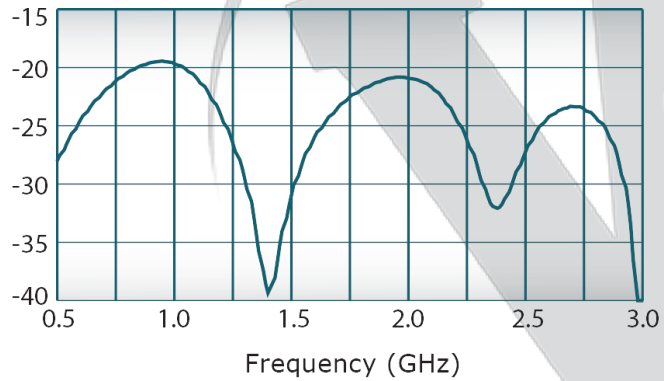
Coupling:



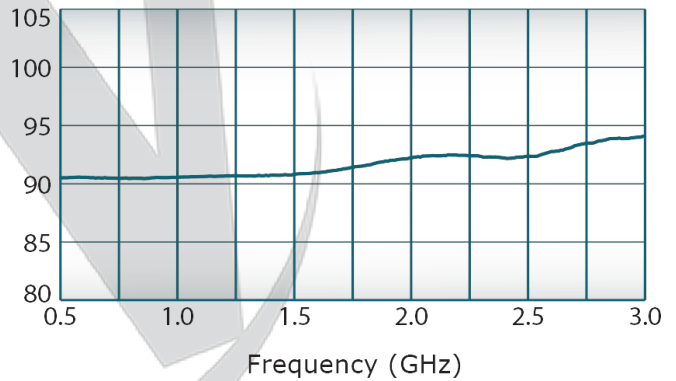
VSWR:



Isolation:



Phase Balance:



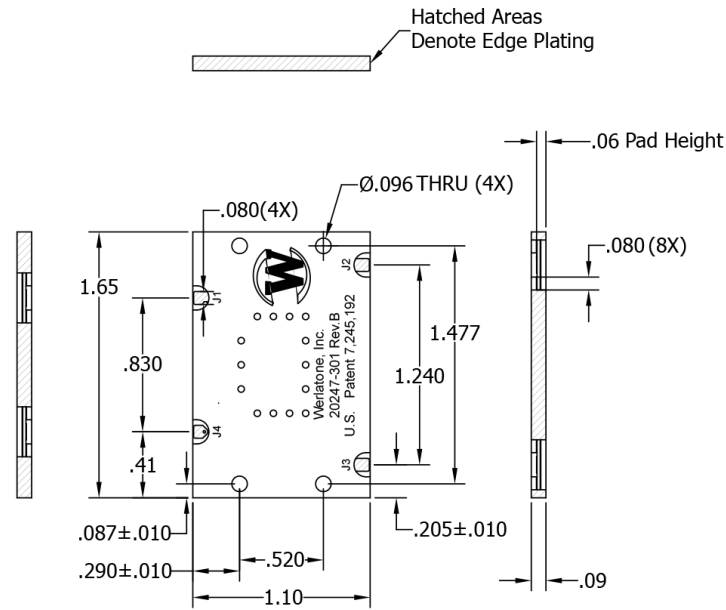
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REVISION HISTORY						
DATE	REV	REVISION RECORD	AUTH	CHK	APPV	
8/30/2006	-	INITIAL RELEASE	GP	NH	BW	
10/6/2009	A	ECN 4977	GP	NH	BW	
9/8/2010	B	ECN 5225	GP	NH	BW	
3/8/11	C	ECN 5314	GP	NH	BW	



UNLESS OTHERWISE SPECIFIED INTERPRET DRAWING LAW MIL-STD-100 DIMENSIONING PER ASME Y14.5M-2009 PARAMETRIC INFO FOR REF ONLY DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 2° 3 PL DECIMALS ± .005 2 PL DECIMALS ± .015 THIRD ANGLE PROJECTION	DWN	DATE	W WERLATONE   SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
	GP	8/30/06	TITLE			
	CHK	DATE	USED ON			
	ENGR	DATE				
	QA	DATE	SIZE	CAGE CODE	DWG NO	REV
			A	28812	20247-500	C
	RLSE	DATE	SCALE			
			1:1			SHEET 1 OF 1

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