
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

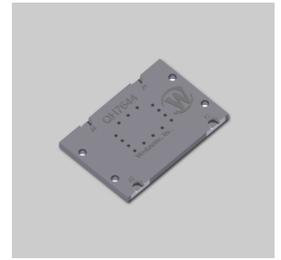
Port Configurations:

J1	J2	J3	J4
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.

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

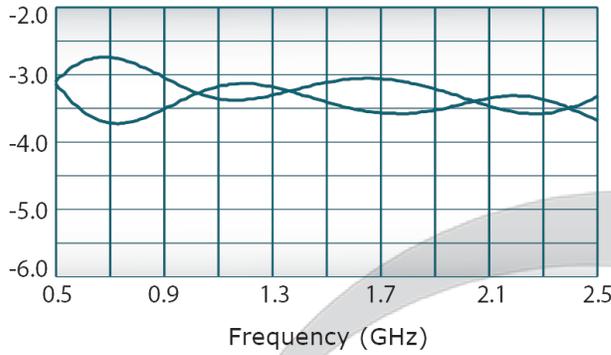


PRODUCT DATA SHEET

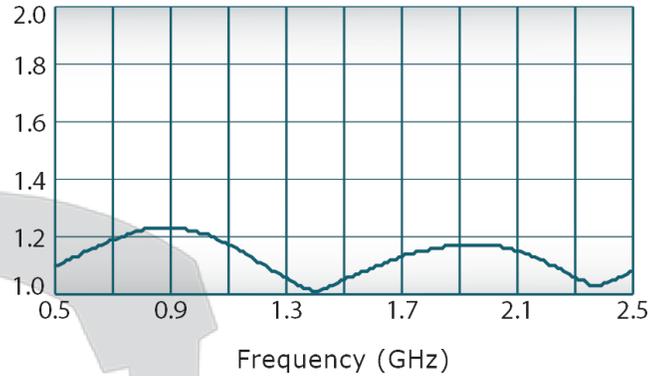
QH7644

Performance Data (Specifications subject to change without notice):

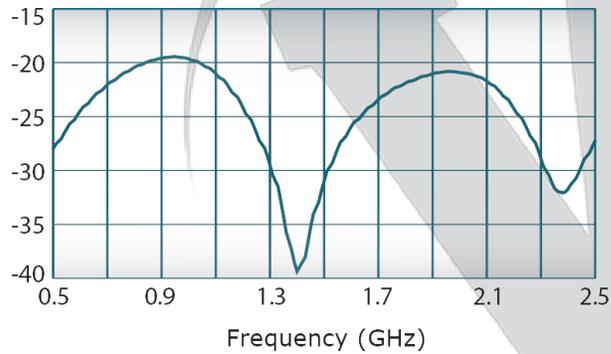
Coupling:



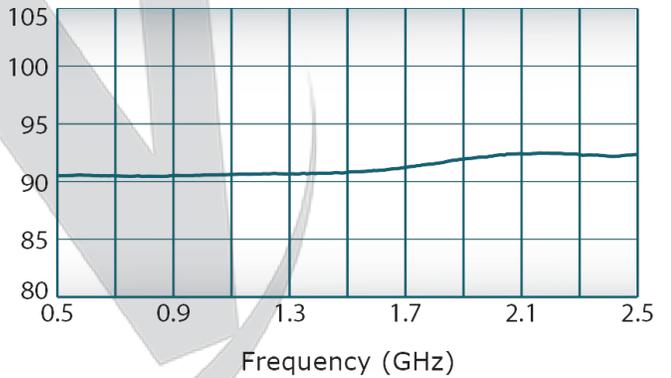
VSWR:



Isolation:



Phase Balance:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

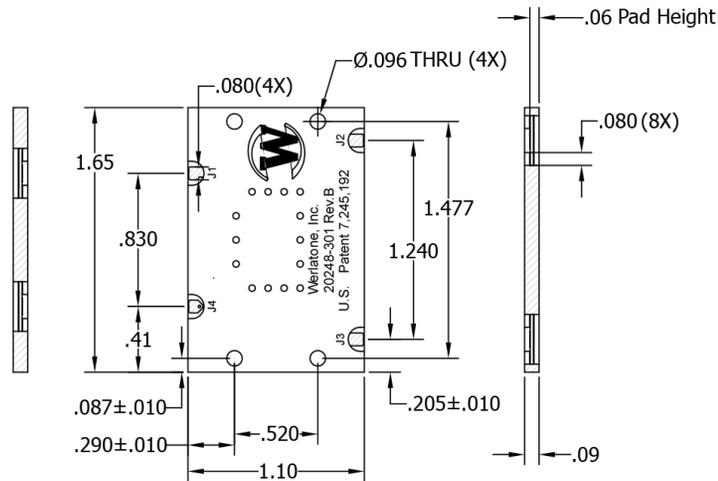
Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION
 This document contains proprietary information which is the sole property of Werlatone, Inc.

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	W WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563
	GP	8/30/06	TITLE		
	CHK	DATE	USED ON		
	ENGR	DATE	SCALE		
QA	DATE	SIZE	CAGE CODE	DWG NO	REV
RLSE	DATE	A	28812	20248-500	B
SCALE		1:1		SHEET 1 OF 1	

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com