

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: $\pm 5^\circ$ dB Max.
Amplitude Balance: ± 0.6 dB Max.
Isolation: 19 dB Min.

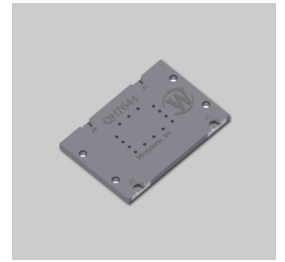
Mechanical Specifications:

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.

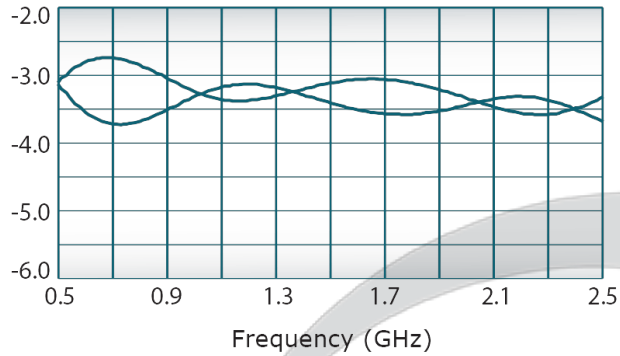


PRODUCT DATA SHEET

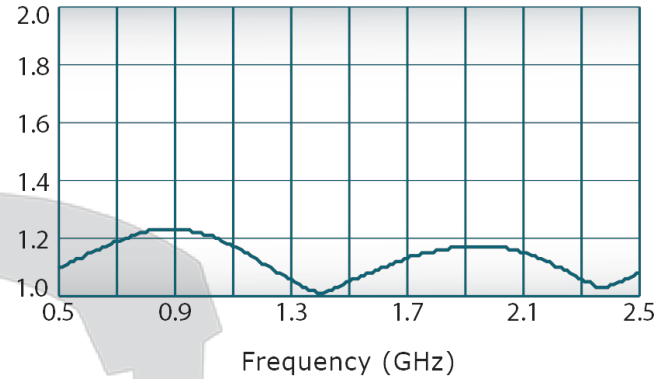
QH7644

Performance Data (Specifications subject to change without notice):

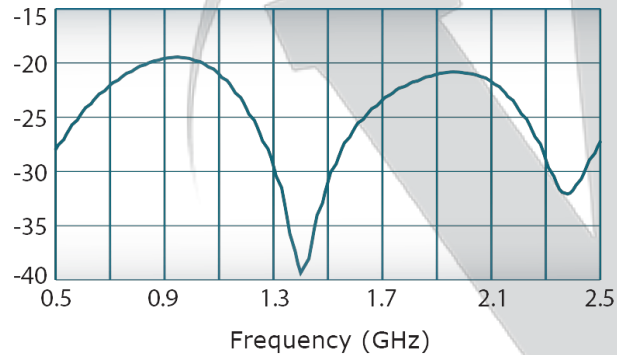
Coupling:



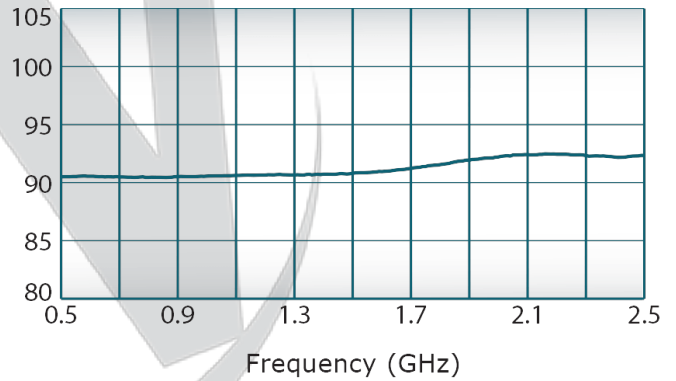
VSWR:



Isolation:

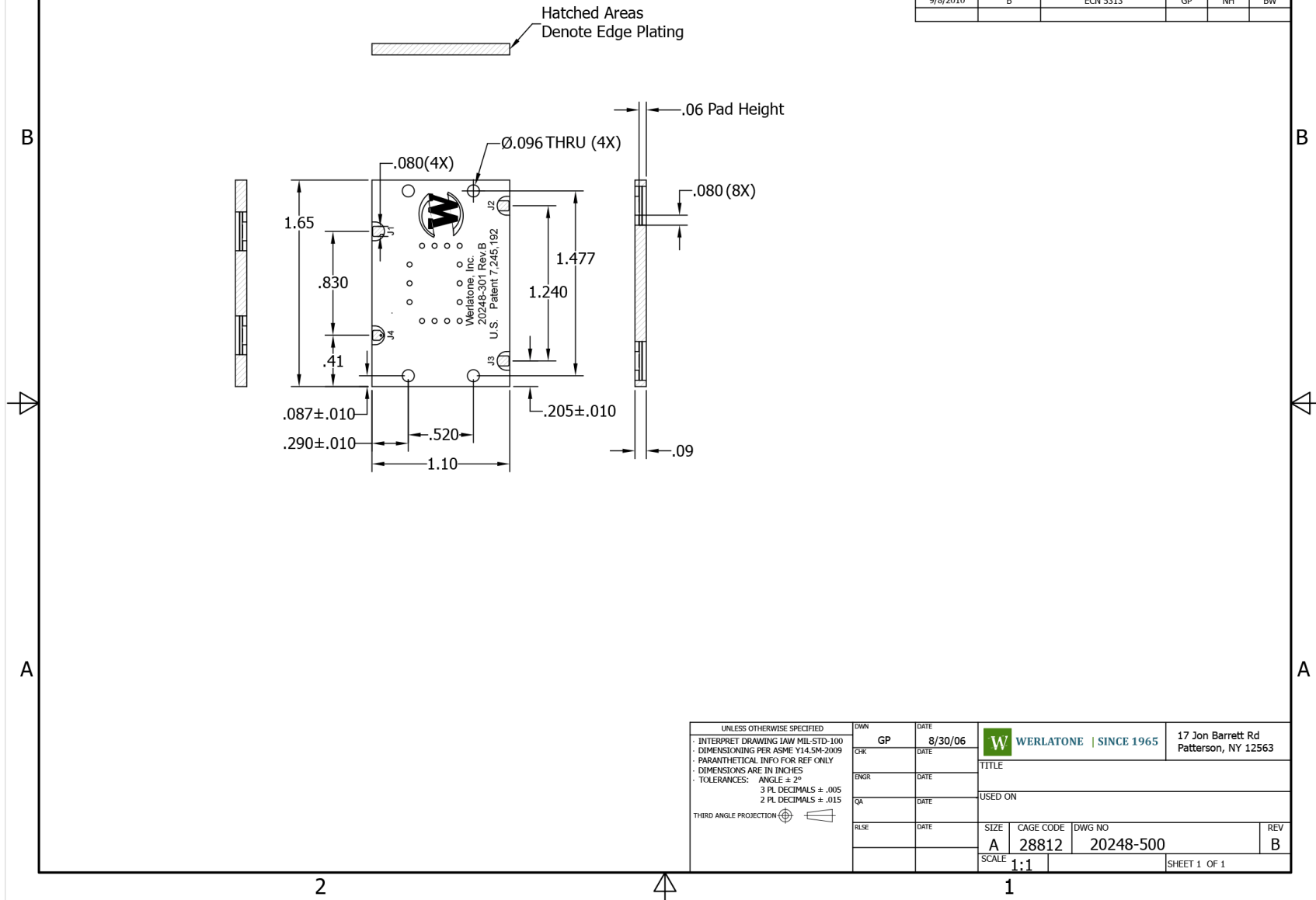




Phase Balance:



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

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



UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING LAW MIL-STD-100		GP	8/30/06				
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE	TITLE			
PARAMETRIC INFO FOR REF ONLY		ENGR	DATE				
DIMENSIONS ARE IN INCHES		QA	DATE	USED ON			
TOLERANCES: ANGLE ± 2°		RLSE	DATE	SIZE		REV	
3 PL DECIMALS ± .005				A		B	
2 PL DECIMALS ± .015				CAGE CODE			
THIRD ANGLE PROJECTION 				28812			
				DWG NO			
				1:1			
				20248-500			
				SCALE		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