
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.

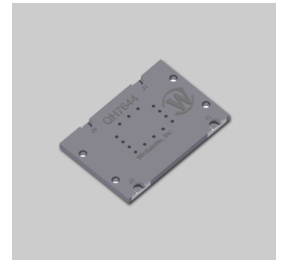
Mechanical Specifications:

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.

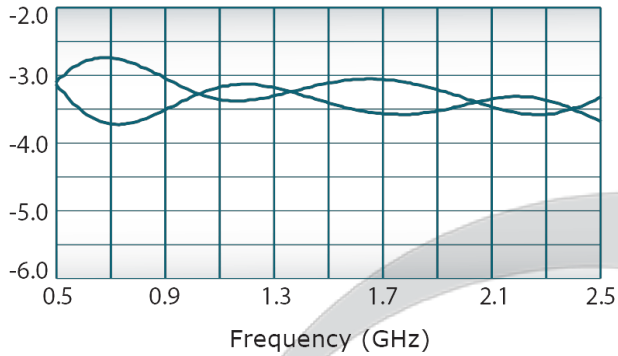


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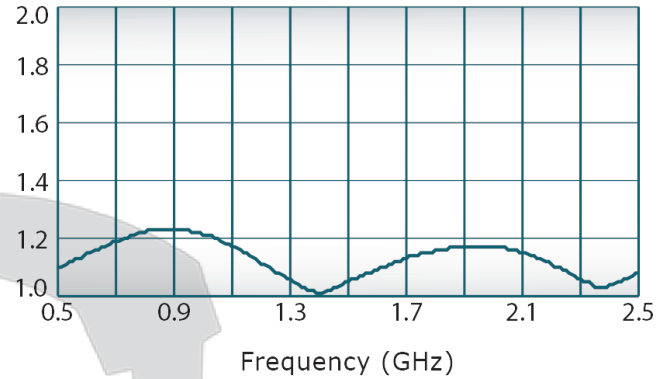
QH7644

Performance Data (Specifications subject to change without notice):

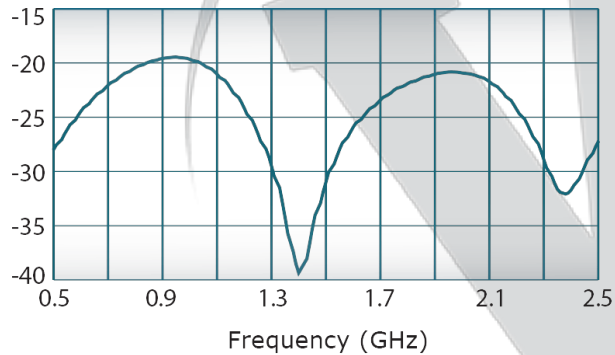
Coupling:



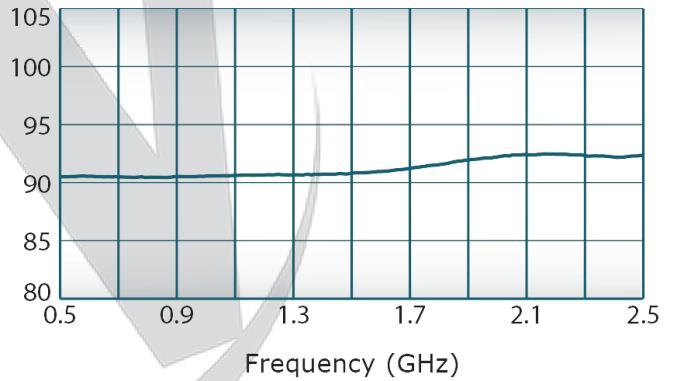
VSWR:



Isolation:



Phase Balance:



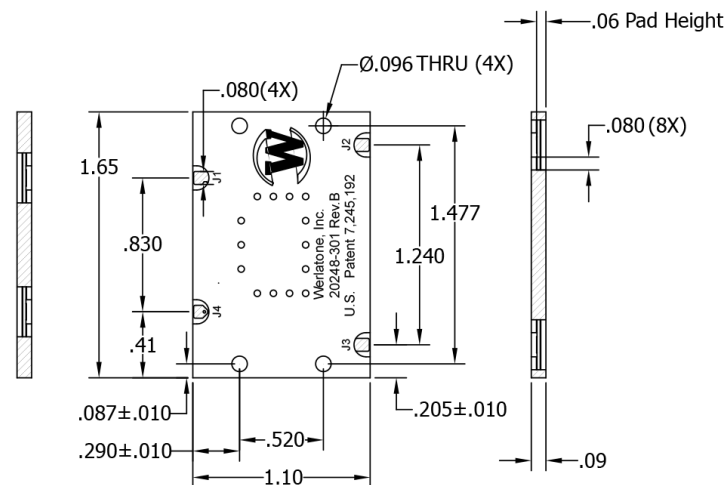
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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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		DWN	DATE	8/30/06		W WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING LAW MIL-STD-100		GP	DATE	8/30/06		TITLE			
DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE						
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		DWG NO	
THIRD ANGLE PROJECTION						28812		20248-500	
						SCALE		SHEET 1 OF 1	
						1:1			

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