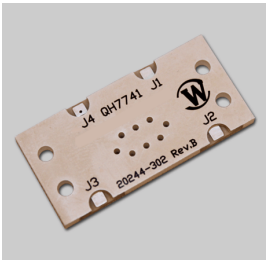
WERLATONE

Model QH7741



PRODUCT DATA SHEET **QH7741**

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:	800 - 3000 MHz
Power:	200 W CW
Insertion Loss	0.3 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.45 dB Max.
Isolation:	18 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH7741-Sn: Immersion Tin (RoHS) QH7741-Ag: Immersion Silver (RoHS) QH7741-Au: ENIG (RoHS)
Size:	1.35 x 0.65 x 0.091"

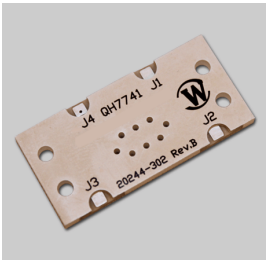
Port Configurations:

J1	**J2**	**J3**	**J4**
Input	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Input	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Input	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Input

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.

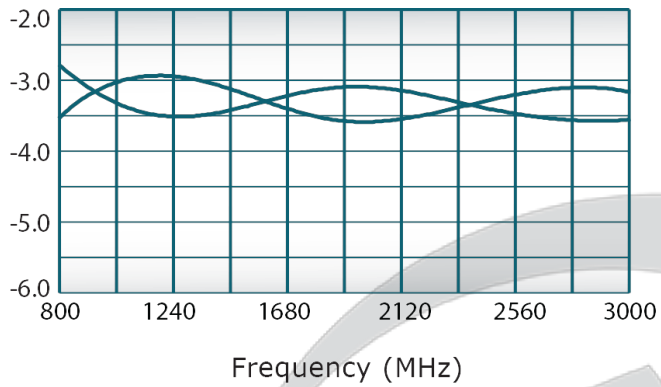
Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Werlatone, Inc.All Rights Reserved

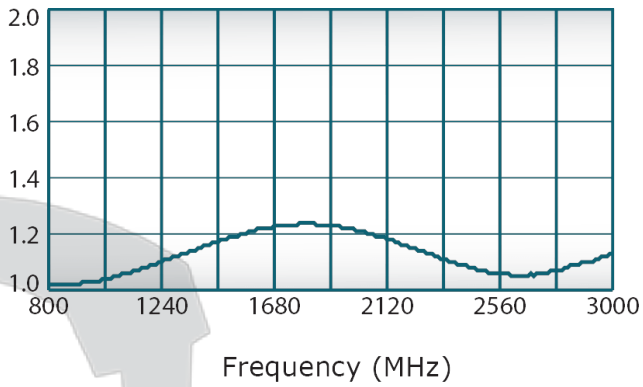


Performance Data (Specifications subject to change without notice):

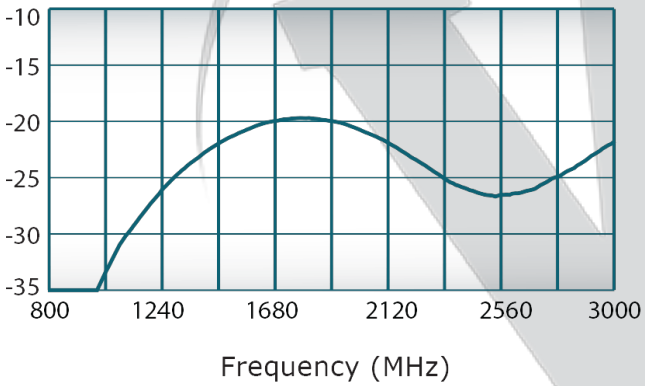
Coupling:



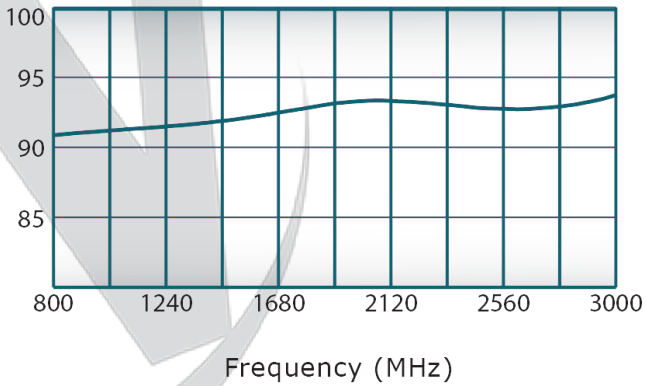
VSWR:



Isolation:



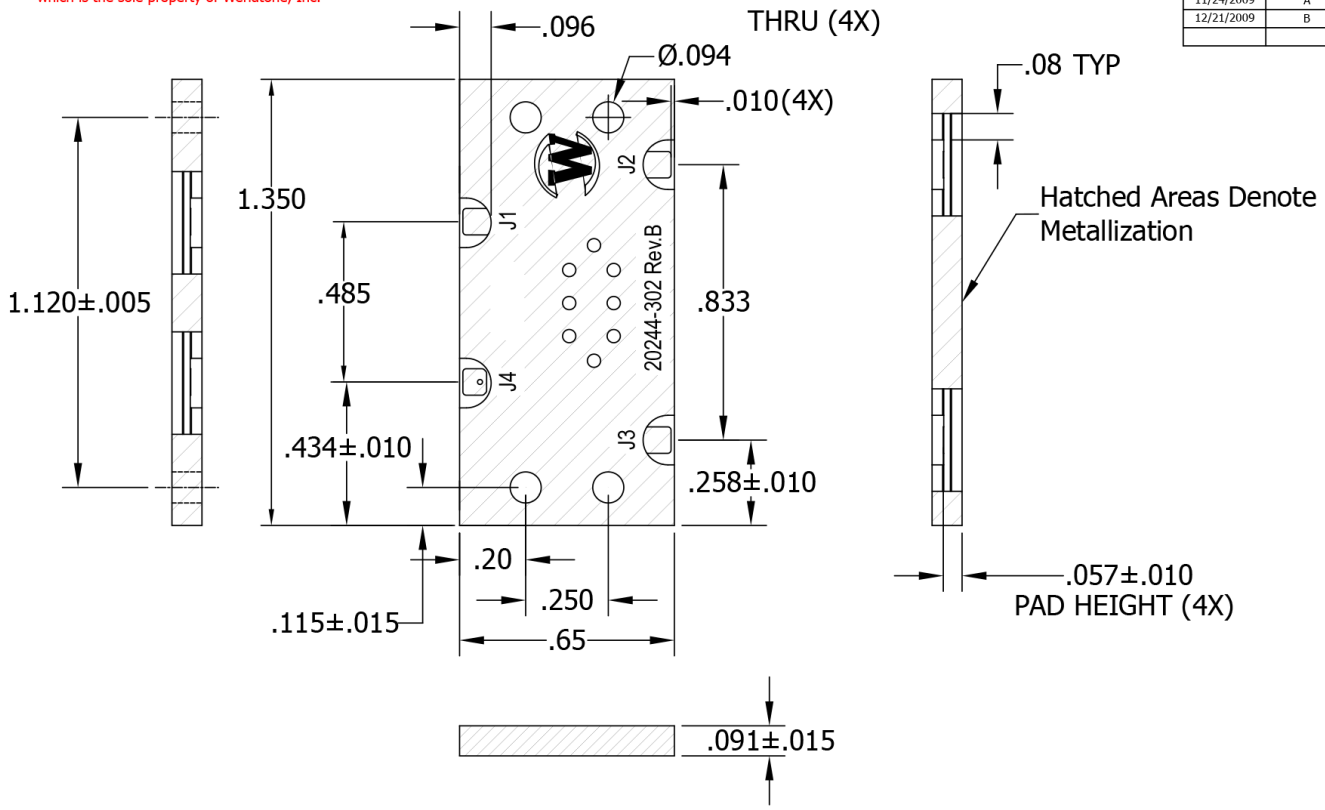
Phase Balance:



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 DISCLOUSRE 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
7/13/2006	-	INITIAL RELEASE	GP	NH	CS
11/24/2009	A	ECN 5011	GP	NH	BW
12/21/2009	B	ECN 5034	GP	NH	BW



UNLESS OTHERWISE SPECIFIED	DWN	DATE	WERLATONE | SINCE 1965	2095 Route 22 Brewster, NY 10509
· INTERPRET DRAWING IAW MIL-STD-100	GP	7/13/06		
· DIMENSIONING PER ASME Y14.5M-2009	CHK	DATE	TITLE	
· PARANTHETICAL INFO FOR REF ONLY	ENGR	DATE		
· DIMENSIONS ARE IN INCHES	QA	DATE	USED ON	
· TOLERANCES: ANGLE ± 2°	RLSE	DATE	SIZE: A	CAGE CODE: 28812
3 PL DECIMALS ± .005			DWG NO: 20244-500	REV: B
2 PL DECIMALS ± .015			SCALE: 2:1	SHEET 1 OF 1
THIRD ANGLE PROJECTION				

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