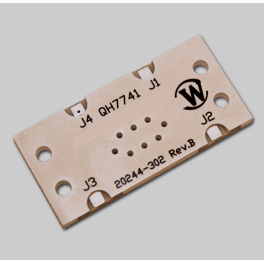
WERLATONE

Model QH7741
90° Hybrids Surface Mount (SMT) & Drop



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"

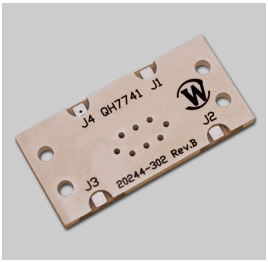
Port Configurations:

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.

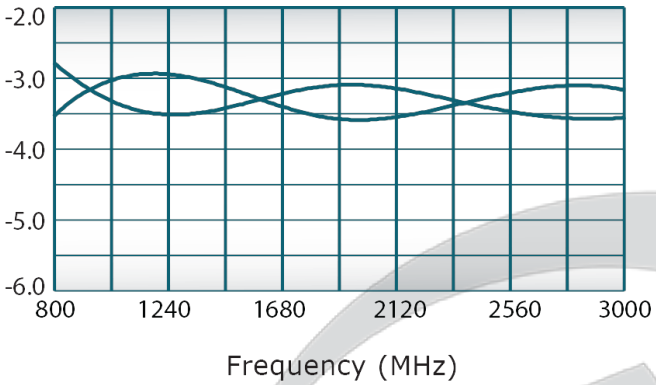
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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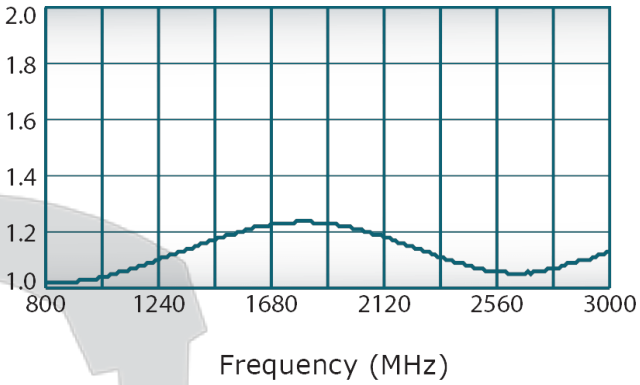


Performance Data (Specifications subject to change without notice):

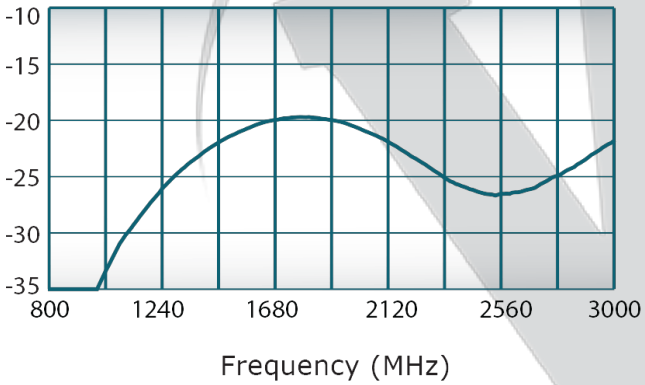
Coupling:



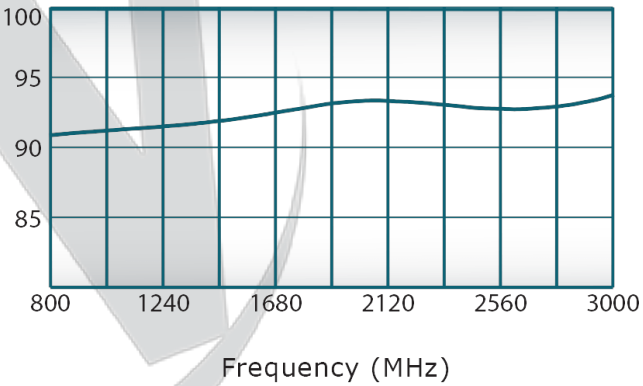
VSWR:



Isolation:



Phase Balance:

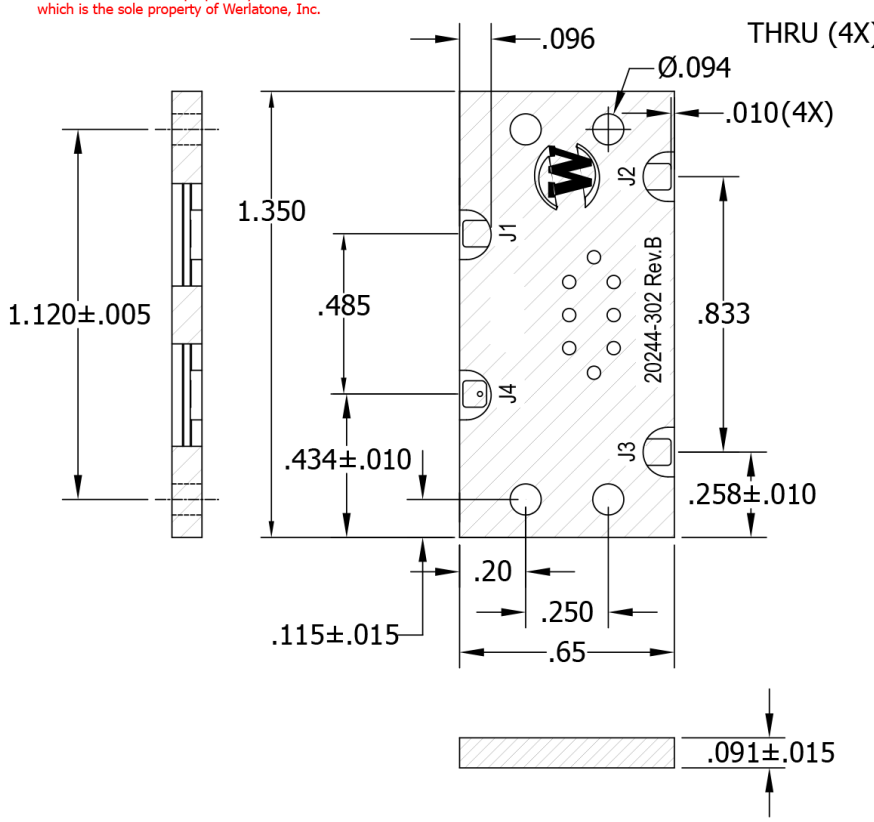


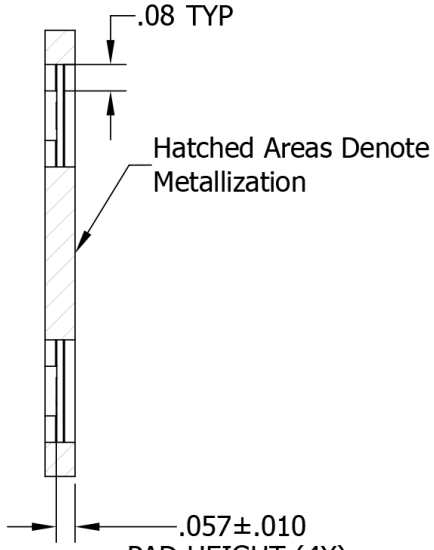
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
7/13/2006	-	INITIAL RELEASE	GP	NH	CS
11/24/2009	A	ECN 5011	GP	NH	BW
12/21/2009	B	ECN 5034	GP	NH	BW





UNLESS OTHERWISE SPECIFIED
- INTERPRET DRAWING IAW MIL-STD-100
- DIMENSIONING PER ASME Y14.5M-2009
- PARANTHETICAL INFO FOR REF ONLY
- DIMENSIONS ARE IN INCHES
- TOLERANCES: ANGLE ± 2°
  3 PL DECIMALS ± .005
  2 PL DECIMALS ± .015

THIRD ANGLE PROJECTION

DWN	GP	7/13/06
CHK		
ENGR		
QA		
RLSE		

WERLATONE | SINCE 1965
2095 Route 22
Brewster, NY 10509

TITLE

USED ON

SIZE	CAGE CODE	DWG NO	REV
A	28812	20244-500	B

SCALE 2:1 SHEET 1 OF 1

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