WERLATONE

Model QH7819
90° Hybrids Surface Mount (SMT) & Drop



PRODUCT DATA SHEET **QH7819**

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:	200 - 1000 MHz
Power:	100 W CW
Insertion Loss	0.6 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	90° ± 5° dB Max.
Amplitude Balance:	± 0.55 dB Max.
Isolation:	20 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH7819-Pb: Electrodeposited Tin/Lead QH7819-Sn: Immersion Tin (RoHS Compliant) QH7819-Ag: Immersion Silver (RoHS Compliant) QH7819-Au (ENIG)
Size:	2.5 x 0.75 x 0.15

Port Configurations:

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

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.

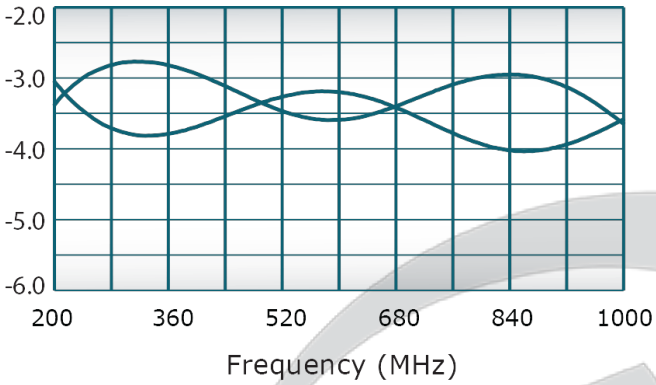
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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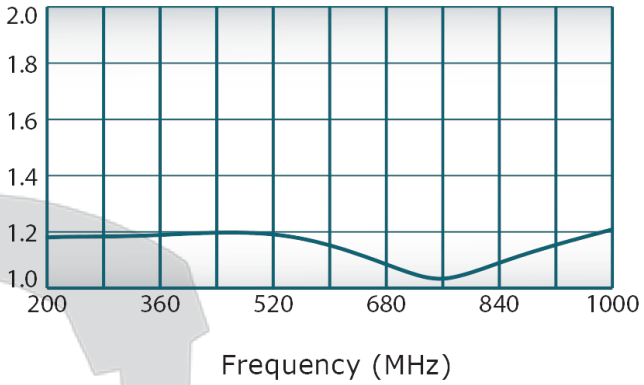


Performance Data (Specifications subject to change without notice):

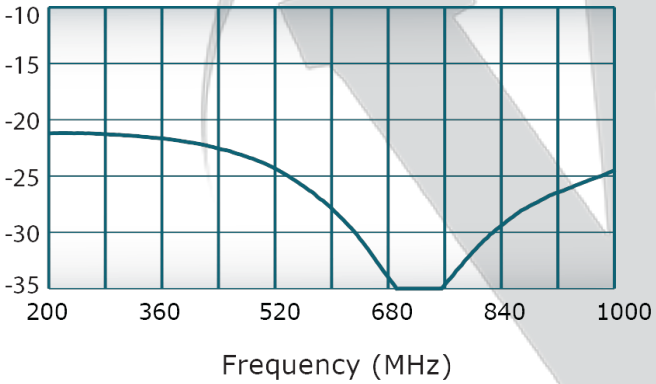
Coupling:



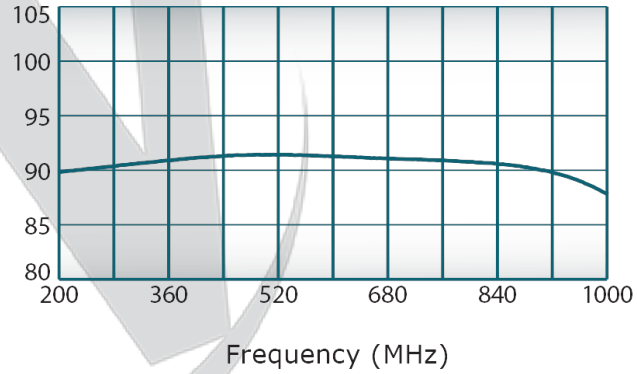
VSWR:



Isolation:



Phase Balance:

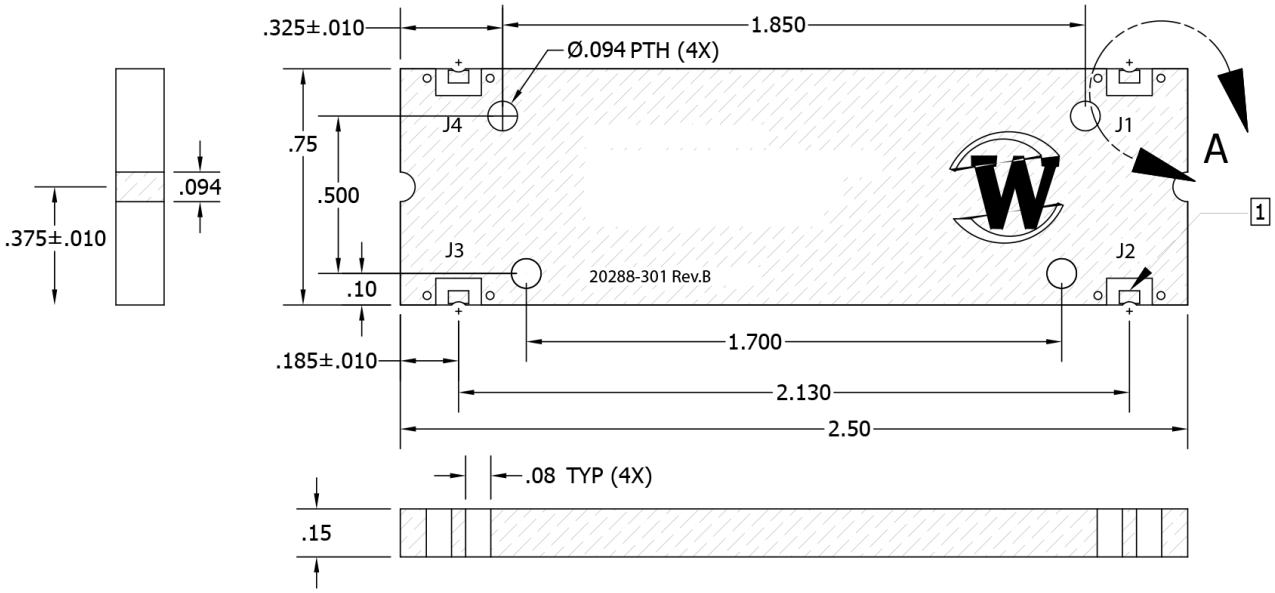


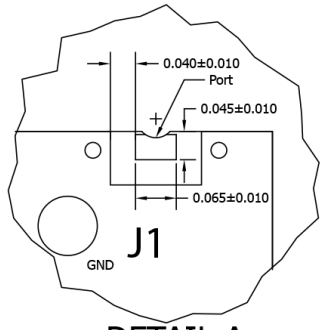
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	DW	CHK
9/18/2008	-	INITIAL RELEASE	GP	GP	NH
10/2/2008	A	ECN 4627	GP	GP	NH
6/19/2009	B	ECN 4910	GP	GP	NH





DETAIL A
SCALE 4:1

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	9/18/2008
CHK		
ENGR		
QA		
RLSE		

WERLATONE | SINCE 1965
2095 Route 22
Brewster, NY 10509

TITLE

USED ON

SIZE	CAGE CODE	DWG NO	REV
A	28812	20288-500	B

SCALE

SHEET 1 OF 1

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