WERLATONE

Model QH10089
90° Hybrids Surface Mount (SMT) & Drop



PRODUCT DATA SHEET **QH10089**

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 - 2800 MHz
Power:	200 W CW
Insertion Loss	0.35 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.4 dB Max.
Isolation:	20 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH10089-Ag: Immersion Silver (RoHS)
Size:	1.25 x 0.55 x 0.081"
Weight:	2.5 grams

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.

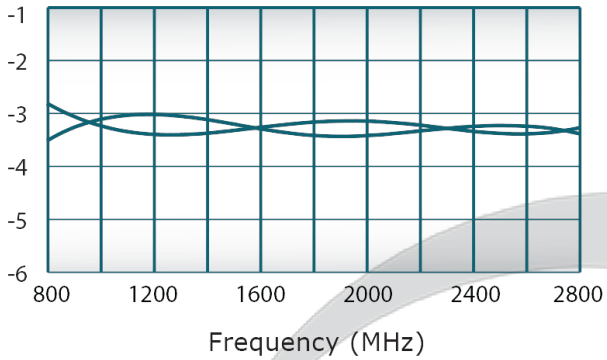
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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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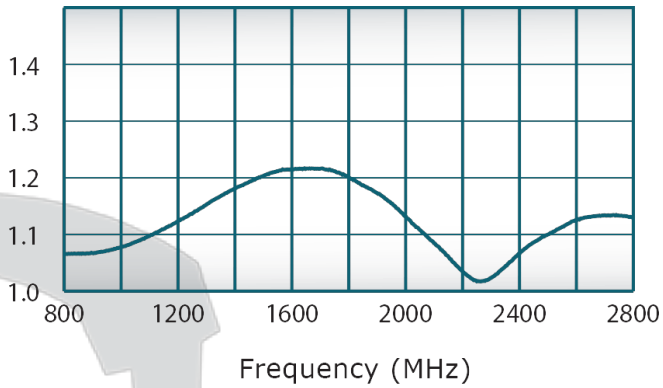


Performance Data (Specifications subject to change without notice):

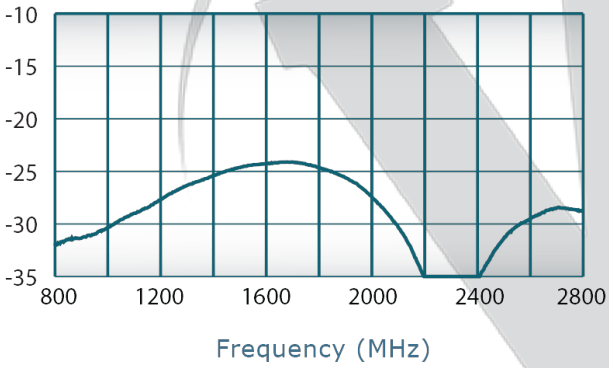
Coupling:



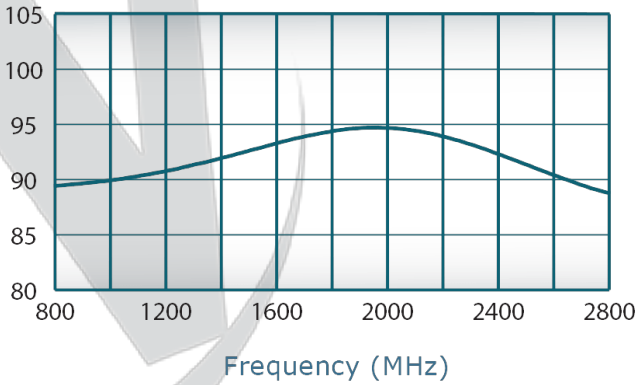
VSWR:



Isolation:



Phase Balance:

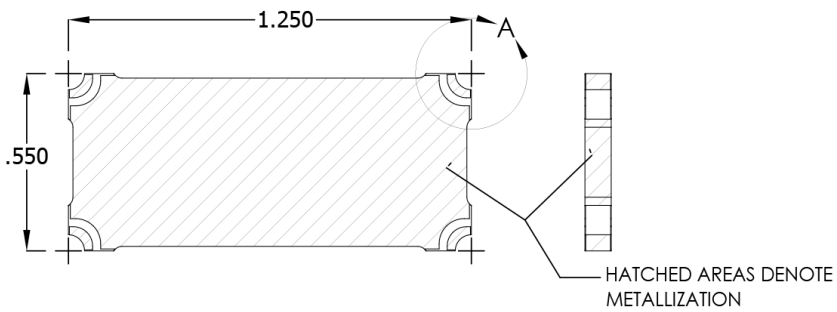


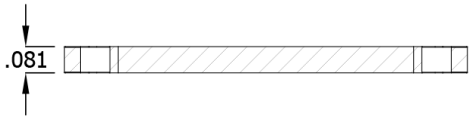
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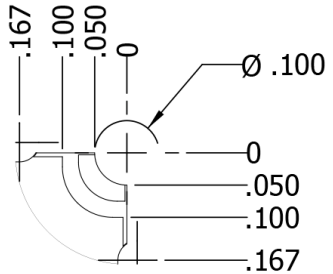
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REVISION HISTORY			
REV.	DESCRIPTION	DATE	APPROVED
-	INITIAL-RELEASE	11/24/14	BW

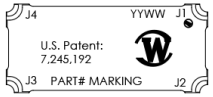






DETAIL A
SCALE 4 : 1

Part Marking
(Top Suface)



SCALE 1 : 1

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
· INTERPRET DRAWING IAW MIL-STD-100
· DIMENSIONING PER ASME Y14.5M-2009
· PARENTHETICAL INFO FOR REF ONLY
· DIMENSIONS ARE IN INCHES
· TOLERANCES:
ANGLES ± 2°
3 PL ± .010
2 PL ± .015

THIRD ANGLE PROJECTION

DWN	GP	11/24/2014
CHK	BW	11/24/2014
ENGR		
MFGR		
QA		
RLSE		

WERLATONE |SINCE 1965
17 Jon Barrett Rd
Patterson, NY 12563

TITLE

SIZE	CAGE CODE	DWG NO	REV
A	28812	21207-500	-

SCALE 2:1 SHEET 1 OF 1

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