

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: $\pm 5^\circ$ 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.



WERLATONE

Model QH10089

90° Hybrids Surface Mount (SMT) & Drop

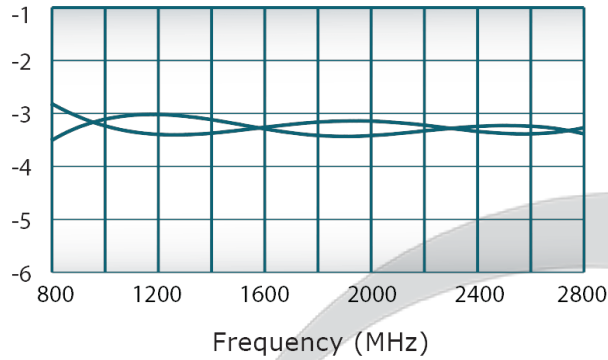


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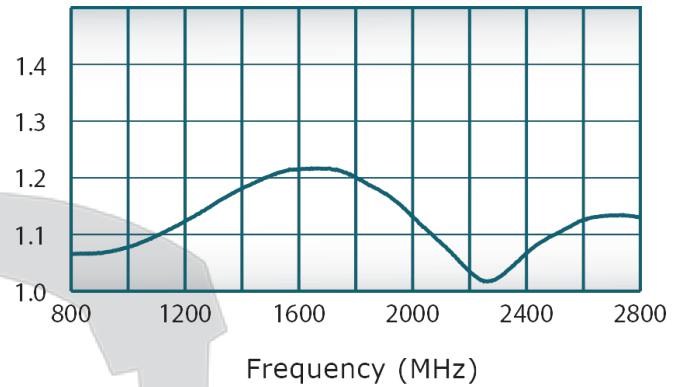
QH10089

Performance Data (Specifications subject to change without notice):

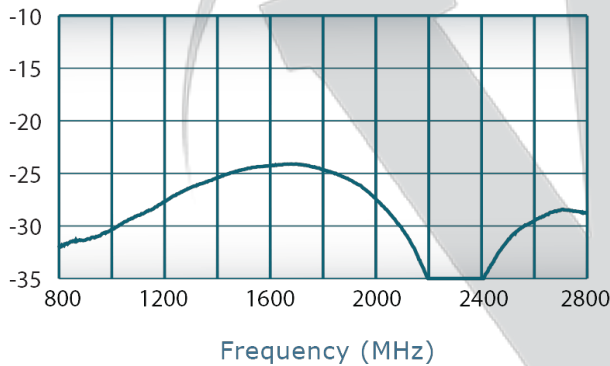
Coupling:



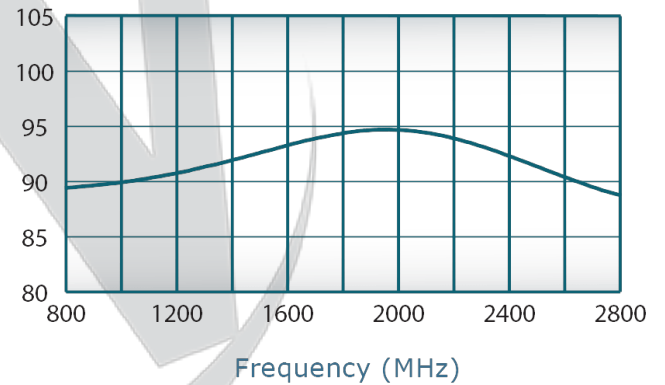
VSWR:



Isolation:



Phase Balance:

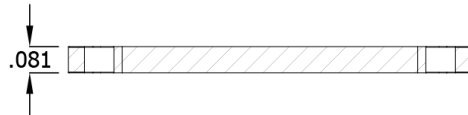
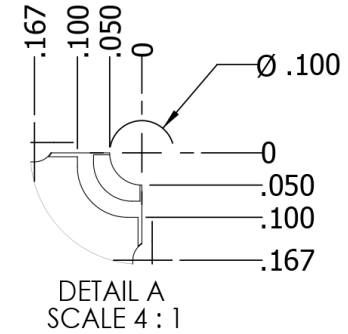
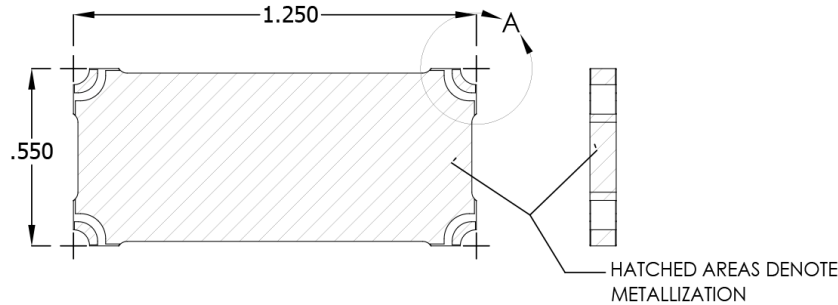


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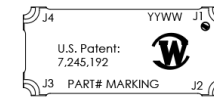
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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



Part Marking
(Top Surface)



SCALE 1 : 1

		UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563	
		INTERPRET DRAWING IAW MIL-STD-100		GP	11/24/2014		
		DIMENSIONING PER ASME Y14.5M-2009		CHK	DATE		
		PARENTHEetical INFO FOR REF ONLY		BW	11/24/2014		
		DIMENSIONS ARE IN INCHES		ENGR	DATE	TITLE	
		TOLERANCES:		MFGR	DATE		
		ANGLES ± 2° 3 PL ± .010 2 PL ± .015		QA	DATE		
				RLSE	DATE	SIZE	REV
						A	-
						CAGE CODE	
						28812	
						DWG NO	
						21207-500	
						SCALE	
						2:1	
						SHEET	
						1 OF 1	

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