
PRODUCT DATA SHEET
QH10900
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:	380 - 2500 MHz
Power:	150 W CW
Insertion Loss	0.55 dB Max.
VSWR:	1.35:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.6 dB Max.
Isolation:	18 dB Min.

Mechanical Specifications:

Type:	Drop-In
Plating Options:	QH10900-Ag: Immersion Silver (RoHS)
Size:	1.3 x 1.3 x 0.15"

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

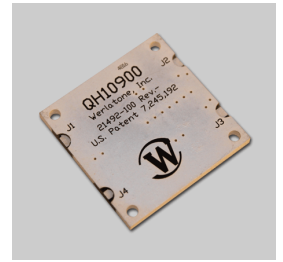
Unit can be ordered with or without Solder Tabs. Add "-T" after plating code for Tabbed unit.

See 90° Drop-In Application Note for more information.

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

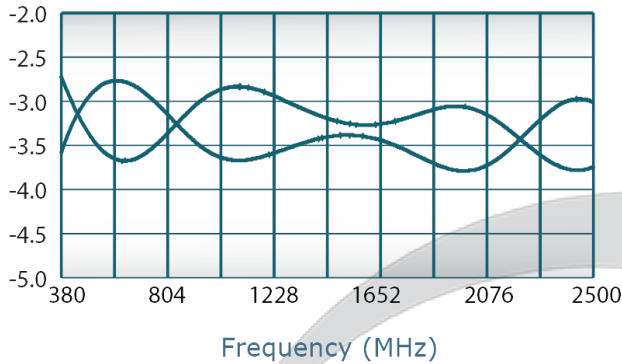


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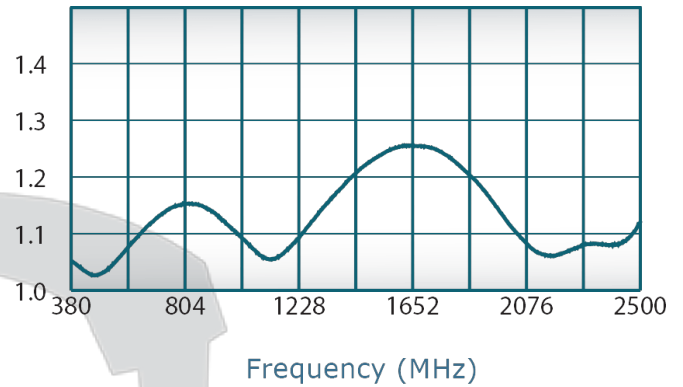
QH10900

Performance Data (Specifications subject to change without notice):

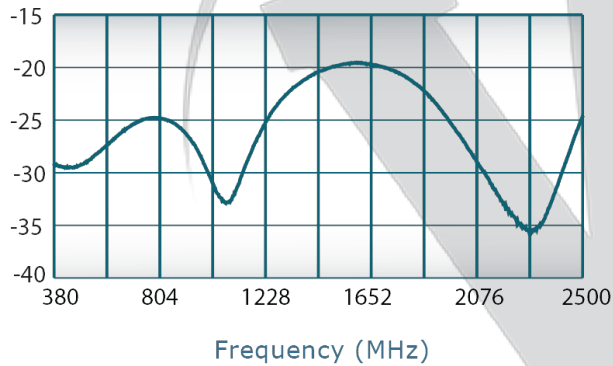
Coupling:



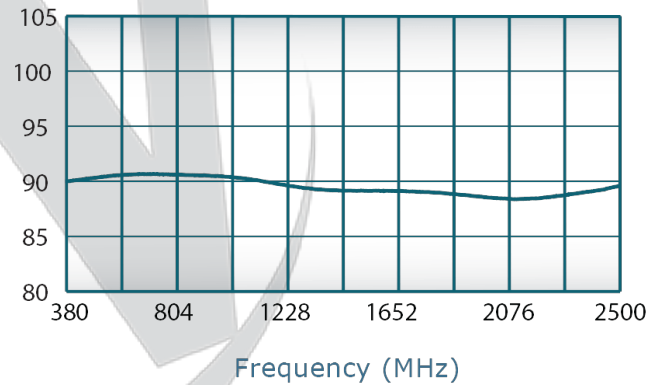
VSWR:



Isolation:



Phase Balance:



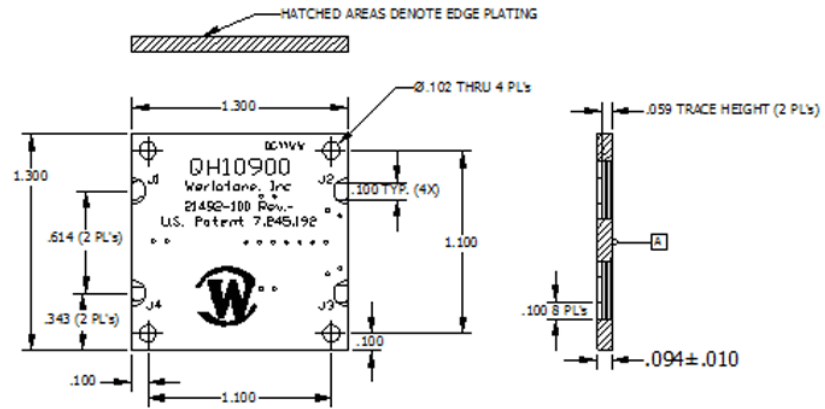
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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
10/27/2016	-	INITIAL RELEASE	GP	CS	BW



- NOTES: UNLESS OTHERWISE SPECIFIED**
1. MOUNT COUPLER WITH SURFACE "A" CONTACTING ADEQUATE HEATSINK.
 2. STRIPLINE COUPLER HAS 4 EXPOSED COPPER PADS. PCB SHOULD HAVE A CUTOUT TO ACCOMMODATE PART. ALIGN 50° LANDS WITH PAD AND MAKE SOLDER JOINT WITH LEAD (NOT SUPPLIED).
 3. Surface Finish: Immersion Silver (RoHS)

UNLESS OTHERWISE SPECIFIED		DATE	DATE	WERLATONE SINCE 1965 17 Jon Barrett Road Patterson, NY 12563
<ul style="list-style-type: none"> • INTERPRET DRAWING TO 161-2FD-100 • DIMENSIONS PER ASME Y14.5M-2009 • DIMENSIONAL TOLERANCES PER ASME Y14.5M-2009 • DIMENSIONS ARE IN INCHES • DIMENSIONAL CHANGES APPLY BEFORE PRODUCTION • TOLERANCES: ANGLE = 1° • 3 PL. DIM. = .005 • 2 PL. DIM. = .01 	GP	10/27/2016	2-WAY 90° HYBRID COUPLER USED ON QH10900	
THIRD ANGLE PROJECTION	DATE DATE DATE DATE	DATE DATE DATE DATE	DATE DATE DATE DATE	SIZE A
				CAGE CODE 28812
				DWG NO 21492-500
				REV 000
				SCALE 1:1
				SHEET 1 OF 1

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