

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: $\pm 5^\circ$ 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.

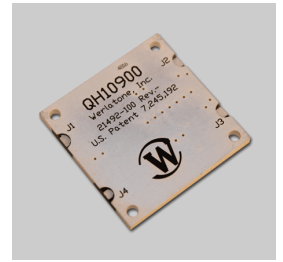
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.



WERLATONE

Model QH10900

90° Hybrids Surface Mount (SMT) & Drop

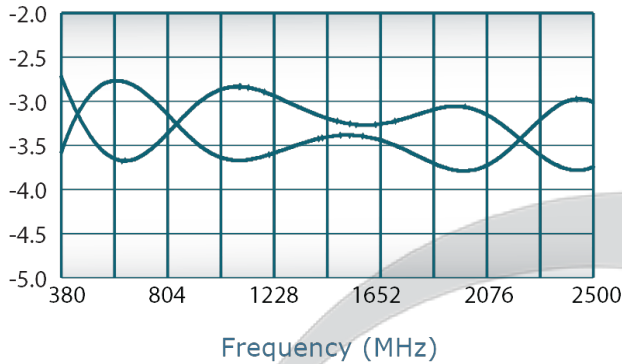


PRODUCT DATA SHEET

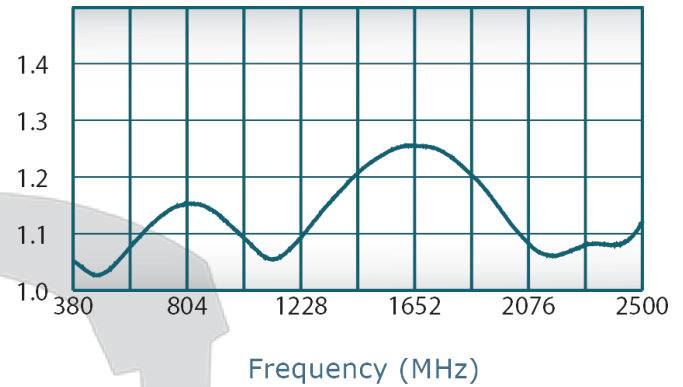
QH10900

Performance Data (Specifications subject to change without notice):

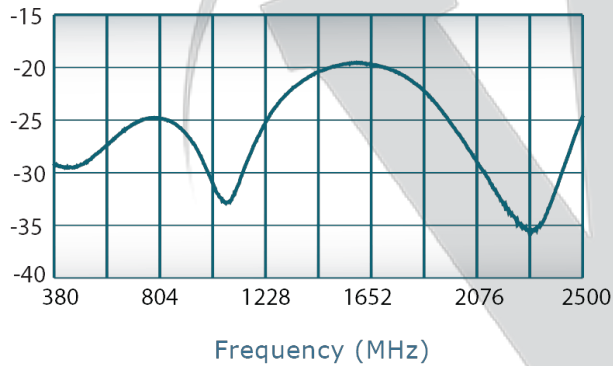
Coupling:



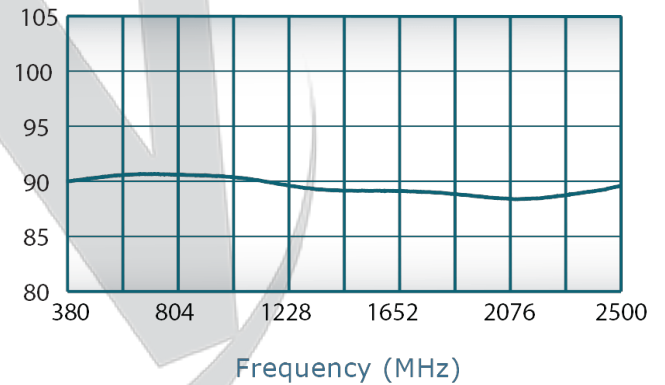
VSWR:



Isolation:



Phase Balance:

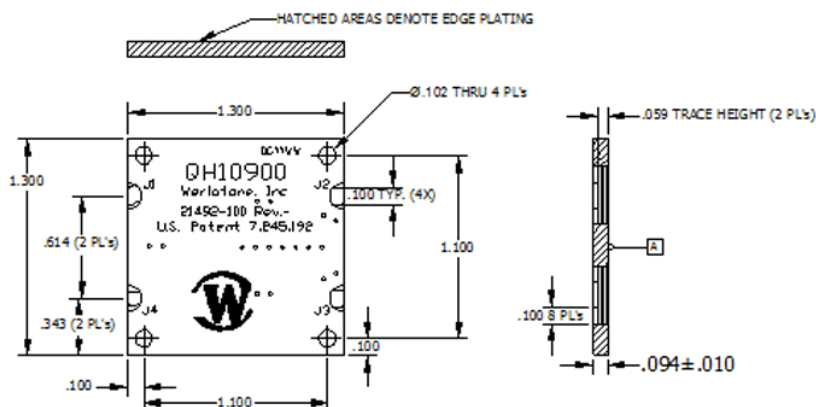


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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

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REVISION HISTORY					
DATE	R/E	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	10/27/2016	WERLATONE SINCE 1965		17 Jon Barrett Road Patterson, NY 12563	
• INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009		DATE	10/27/2016	TITLE		2-WAY 90° HYBRID COUPLER	
• DIMENSIONS ARE IN INCHES		DATE		USED ON		QH10900	
• DIMENSIONS ARE IN INCHES		DATE		SIZE		A 28812	
• DIMENSIONS ARE IN INCHES		DATE		CAGE CODE		21492-500	
• DIMENSIONS ARE IN INCHES		DATE		DWG NO		21492-500	
• DIMENSIONS ARE IN INCHES		DATE		SCALE		1:1	
• DIMENSIONS ARE IN INCHES		DATE		SHEET 1 OF 1			

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