



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	Input
-3 dB, -90°	Isolated	-3 dB, 0°	-3 dB, -90°
Isolated	-3 dB, -90°		-3 dB, 0°

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.

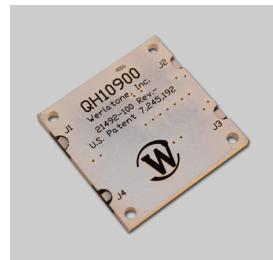
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the 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

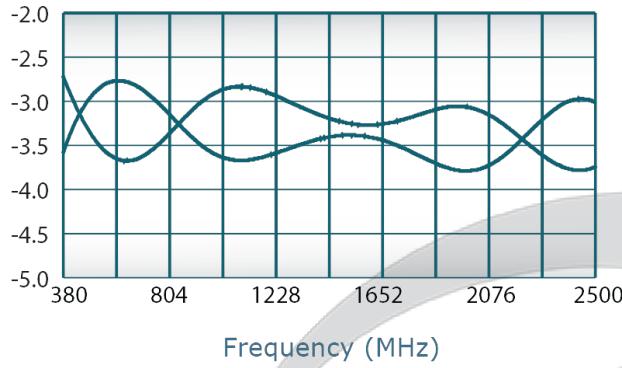


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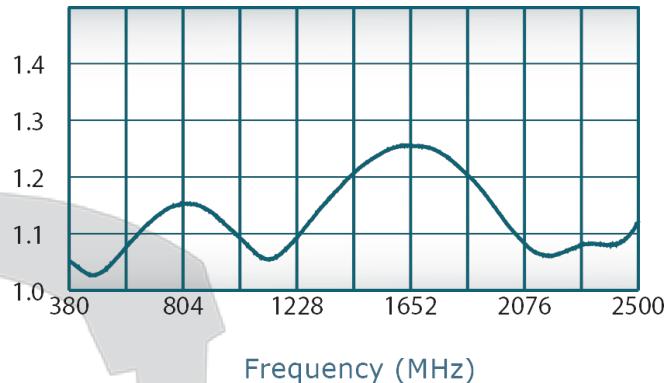
QH10900

Performance Data (Specifications subject to change without notice):

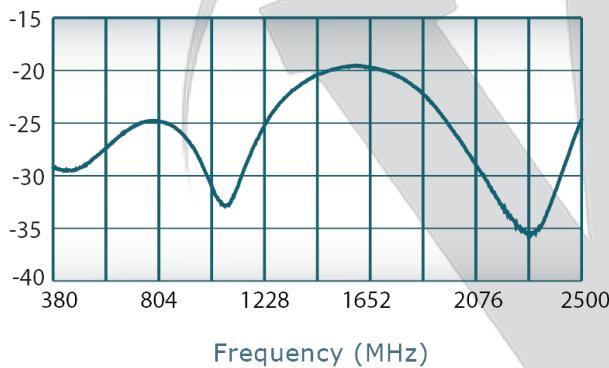
Coupling:



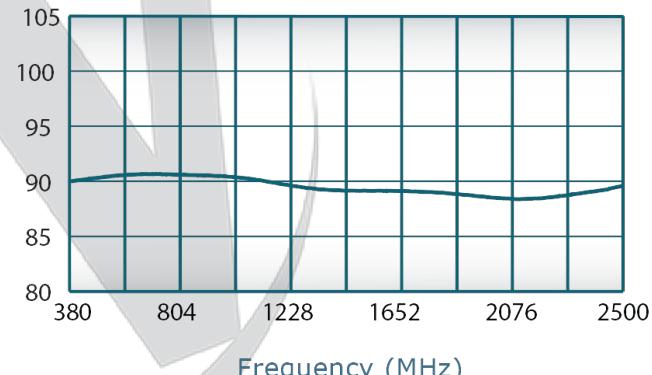
VSWR:



Isolation:



Phase Balance:

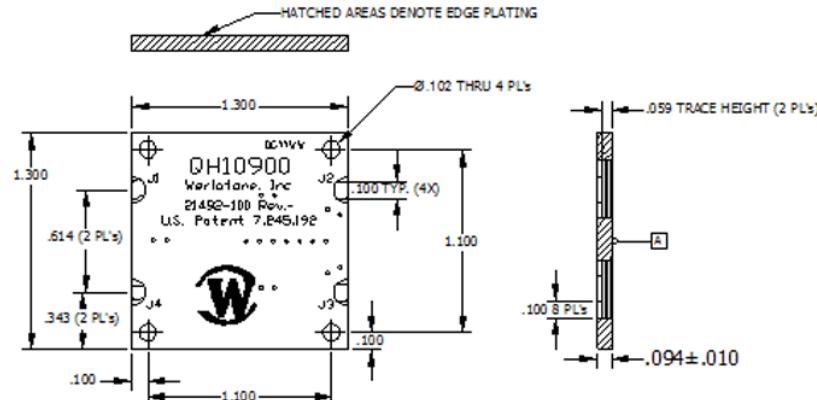


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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
10/27/2016	-	INITIAL RELEASE	GP	CS	BW



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		REV	DATE	WERLATONE SINCE 1965		17 Jon Barrett Road Patterson, NY 12563				
•	INTERFAC DRAWING TAHL-970-100	GP	10/27/2015							
•	COVENANTING PER ARMS 14.510-2009	CS		TITLE						
•	PARANTHETICAL INFO FOR REF ONLY			2-WAY 90° HYBRID COUPLER						
•	DIMENSIONS ARE IN INCHES			USED ON						
•	ALL DIMENSIONS ARE IN INCHES			QH10900						
•	BEFORE RE-CHECKED									
•	TOLERANCE: ANGLE ± 2°									
•	3 PLACES ± .005									
•	2 PLACES ± .01									
				SIZE	CAGE CODE	DWG NO	REV			
				A	28812	21492-500				
				SCALE	1:1			SHEET 1 OF 1		

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