

PRODUCT DATA SHEET

QH11113

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: 600 - 4000 MHz
Power: 150 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: $\pm 5^\circ$ dB Max.
Amplitude Balance: ± 0.7 dB Max.
Isolation: 17 dB Min.

Mechanical Specifications:

Type: Surface Mount
Plating Options: QH11113-Ag: Immersion Silver (RoHS)
Size: 1.29 x 0.99 x 0.12"

Port Configurations:

J1	J2	J3	J4
Sum	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Sum	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Sum	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Sum

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.

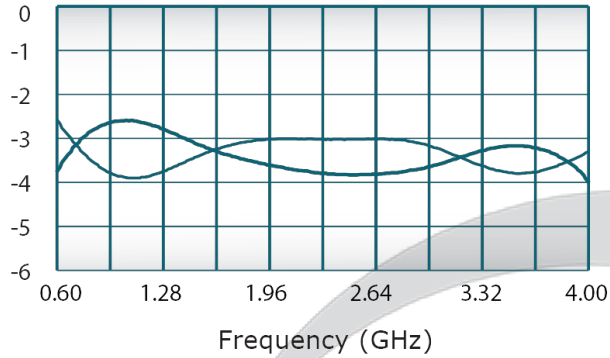


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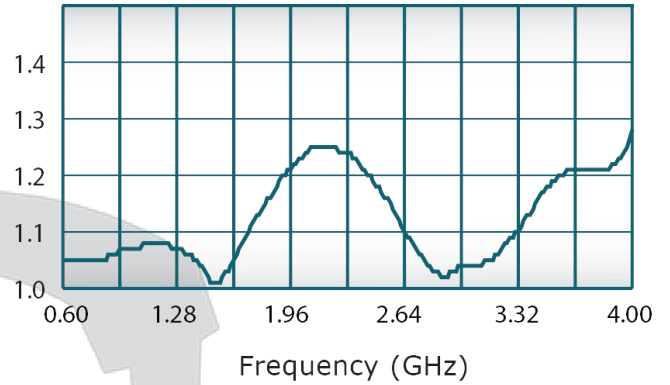
QH11113

Performance Data (Specifications subject to change without notice):

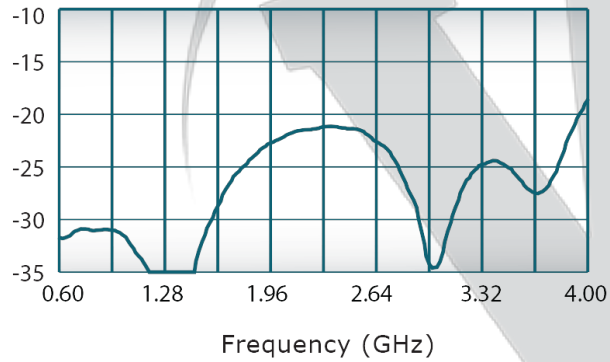
Coupling:



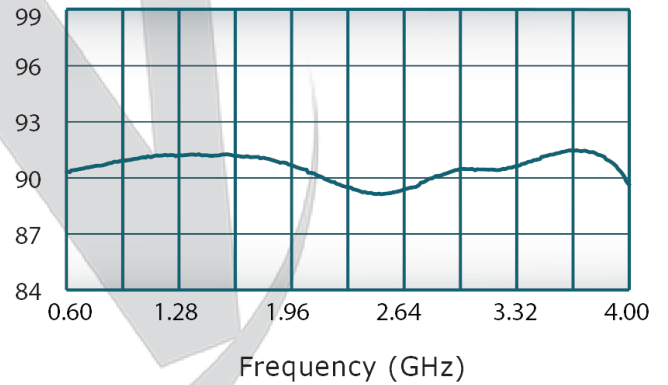
VSWR:



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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Technical drawing of a rectangular room layout, showing dimensions in inches and millimeters.

Room Dimensions:

- Overall Width: 99" [2511]
- Overall Depth: 129" [3281]

Door Dimensions and Offsets:

- Door J1: 326" [830]
- Door J2: 326" [830]
- Door J3: 326" [830]
- Door J4: 326" [830]
- Door J1 Offset: 13" [330]
- Door J2 Offset: 13" [330]
- Door J3 Offset: 17" [430]
- Door J4 Offset: 17" [430]

Internal Dimensions:

- Distance from J1 to J2: 437" [1110]
- Distance from J2 to J3: 732" [1860]
- Distance from J3 to J4: 1027" [2610]
- Distance from J4 to J1: 1027" [2610]

Room Features:

- Central circular area with a "W" logo and the text "21520-102 REV."
- Room label: "YVWW"
- Room label: "U.S. PAT. 7,245,192"

1. SMT
2. SURFACE FINISH: Immersion Silver (RoHS Compliant)
3. OTHER SURFACE FINISHES AVAILABLE UPON REQUEST
4. HATCHED AREAS DENOTE METALLIZATION

		UNLESS OTHERWISE SPECIFIED		DRAWN	DATE	 WERLATON® SINCE 1965	17 Jon Barrett Rd Paterson, NJ 07656		
		INTERNET DRAWING W/4 N/10 S/10 CONSIDERING THE ABOVE T/4 S/10 S/10 PERPENDICULARITY FOR REF ONLY PERPENDICULAR ARE IN INCHES (mm) DIMENSIONS, LIMITS APPLY BEFORE PROCESSES TOLERANCES		CNR	DATE				
QH11113 USED ON				TITLE	OUTLINE				
				DATE					
NEXT ASSY APPLICATION		THIRD ANGLE PROJECTION		QUANTITY	DATE	SIZE	CAGE CODE	DWG NO.	REV
				1 PL + .005 [13] 2 PL + .005 [4]	5/16/2017	B 28812	21520-500	-	-
				SCALE	1:1		SHEET 1 OF 1		

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