

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.

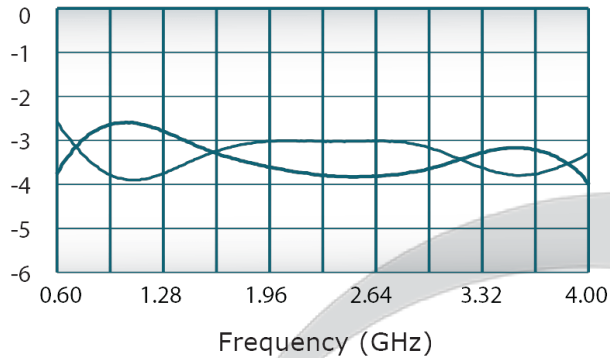


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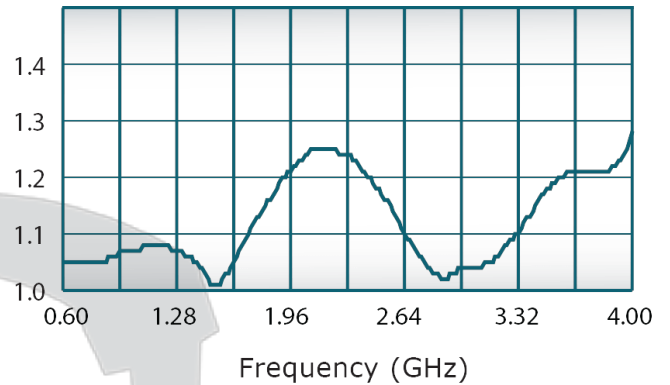
QH11113

Performance Data (Specifications subject to change without notice):

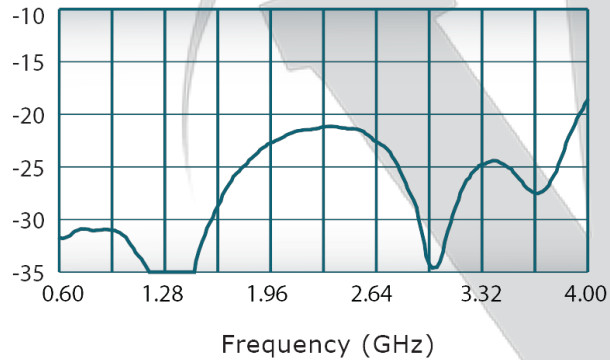
Coupling:



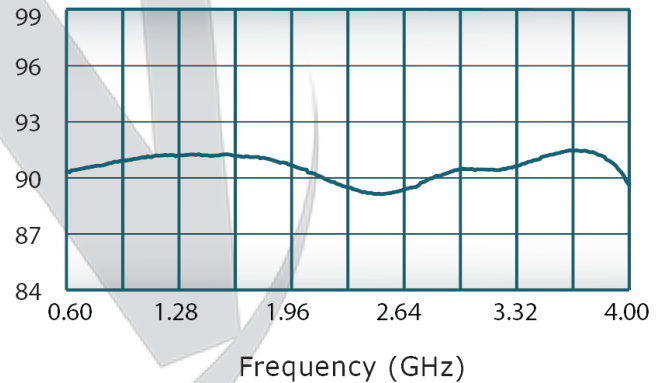
VSWR:



Isolation:



Phase Balance:

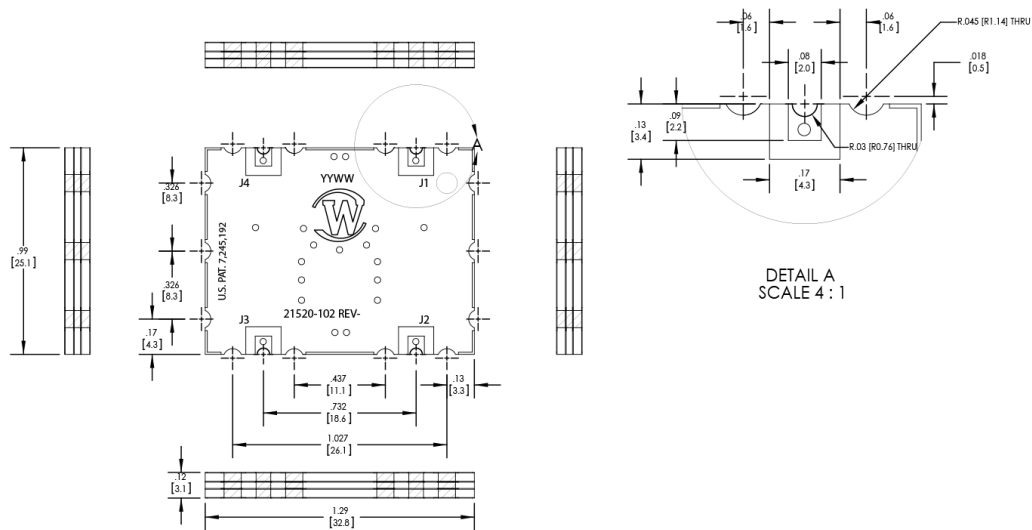


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	8/22/2017	



NOTES: UNLESS OTHERWISE SPECIFIED

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

		UNLESS OTHERWISE SPECIFIED		DWG NO	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING PER MIL-STD-100		DATE		5/15/2017				
DIMENSIONS ARE IN INCHES (mm)		DATE		5/15/2017	TITLE	OUTLINE	REV	
DIMENSIONS ARE IN INCHES (mm)		DATE		5/16/2017				
TOLERANCES:		DATE		5/16/2017	SIZE	CAGE CODE	DWG NO	-
ANGLES: ± 3°		DATE		5/16/2017				
3 PL ± .005 [13]		DATE		5/16/2017	SCALE	B 28812	21520-500	-
2 PL ± .015 [4]		DATE		5/16/2017				
THIRD ANGLE PROJECTION		DATE		5/16/2017				
NEXT ASSY USED ON		DATE		5/16/2017				
APPLICATION		DATE		5/16/2017				

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