

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:	± 5° 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:

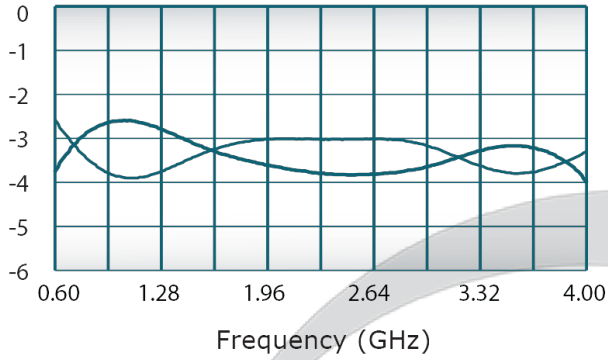
J1	J2	J3	J4
Sum	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Sum	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Sum	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Sum

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.

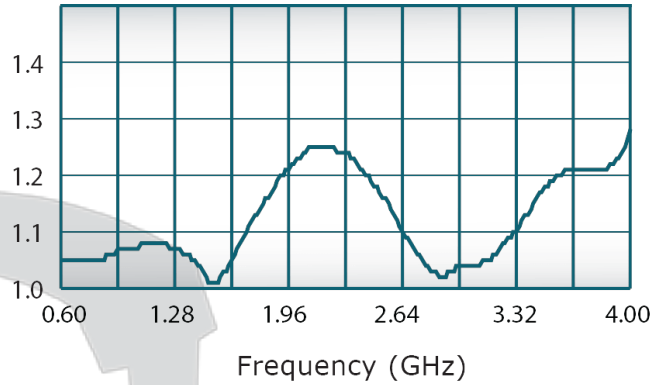


Performance Data (Specifications subject to change without notice):

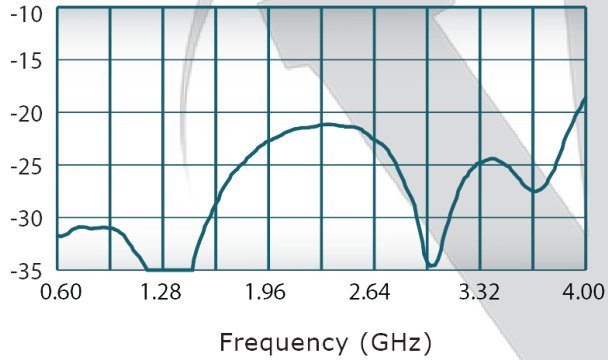
Coupling:



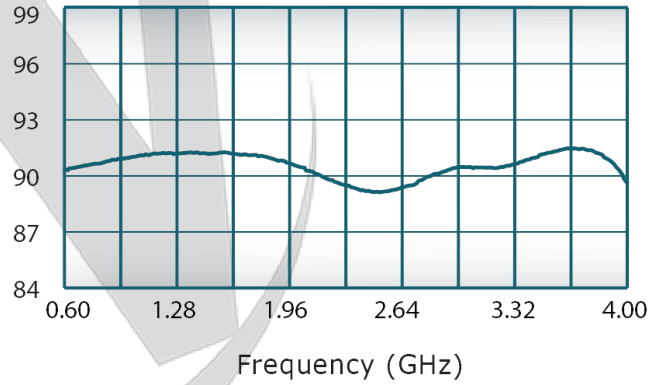
VSWR:



Isolation:



Phase Balance:



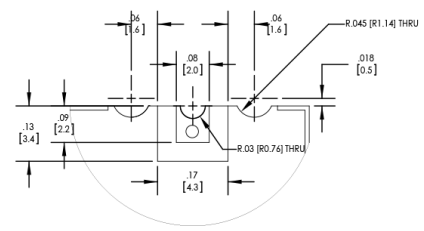
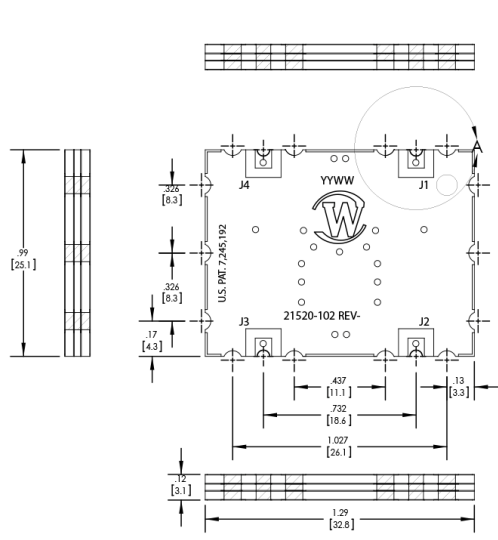
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Werlatone, Inc.

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



DETAIL A
SCALE 4 : 1



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		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 DIMENSIONS AND FINISHES PER ASME Y14.5M-2009 DIMENSIONS ARE IN INCHES (mm) DIMENSIONAL UNITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES = 3° 3 PL ± .006 [13] 2 PL ± .015 [4]		CHK	DATE	
NEXT ASSY USED ON		ENGR	DATE	TITLE
APPLICATION		MB	5/16/2017	OUTLINE
		QA	DATE	SIZE CAGE CODE DWG NO
		REL	DATE	B 28812 21520-500
		THIRD ANGLE PROJECTION		SCALE
				1:1
				REV
				-
				SHEET 1 OF 1

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