

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:	1000 - 7500 MHz
Power:	100 W CW
Insertion Loss	0.65 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:	QH10827-Ag: Immersion Silver (RoHS)
Size:	0.860 x 0.610 x 0.093"

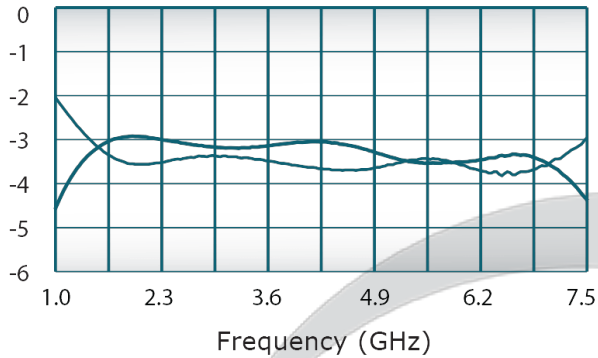
Port Configurations:

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

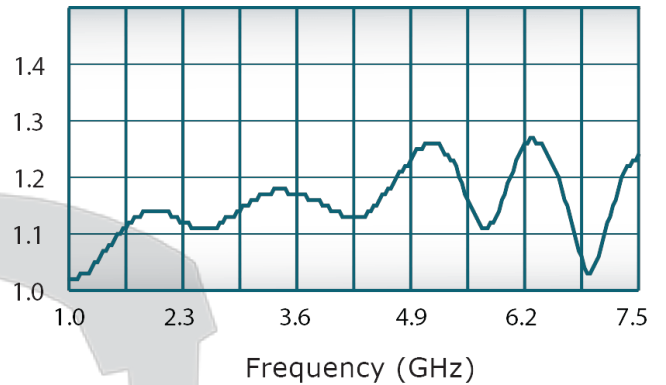
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the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

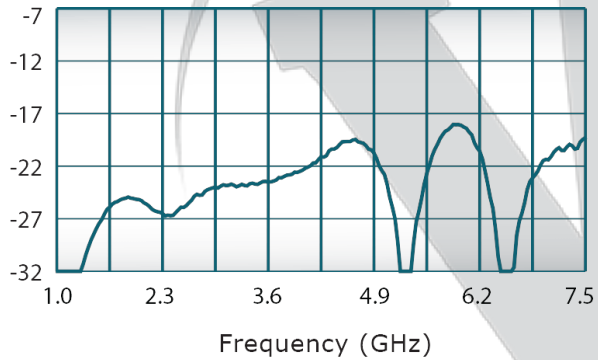
Coupling:



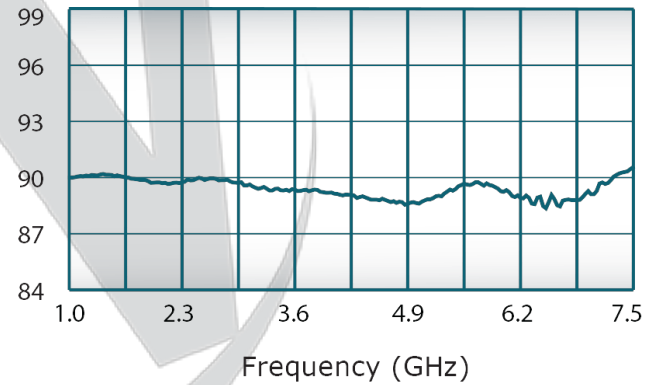
VSWR:



Isolation:



Phase Balance:



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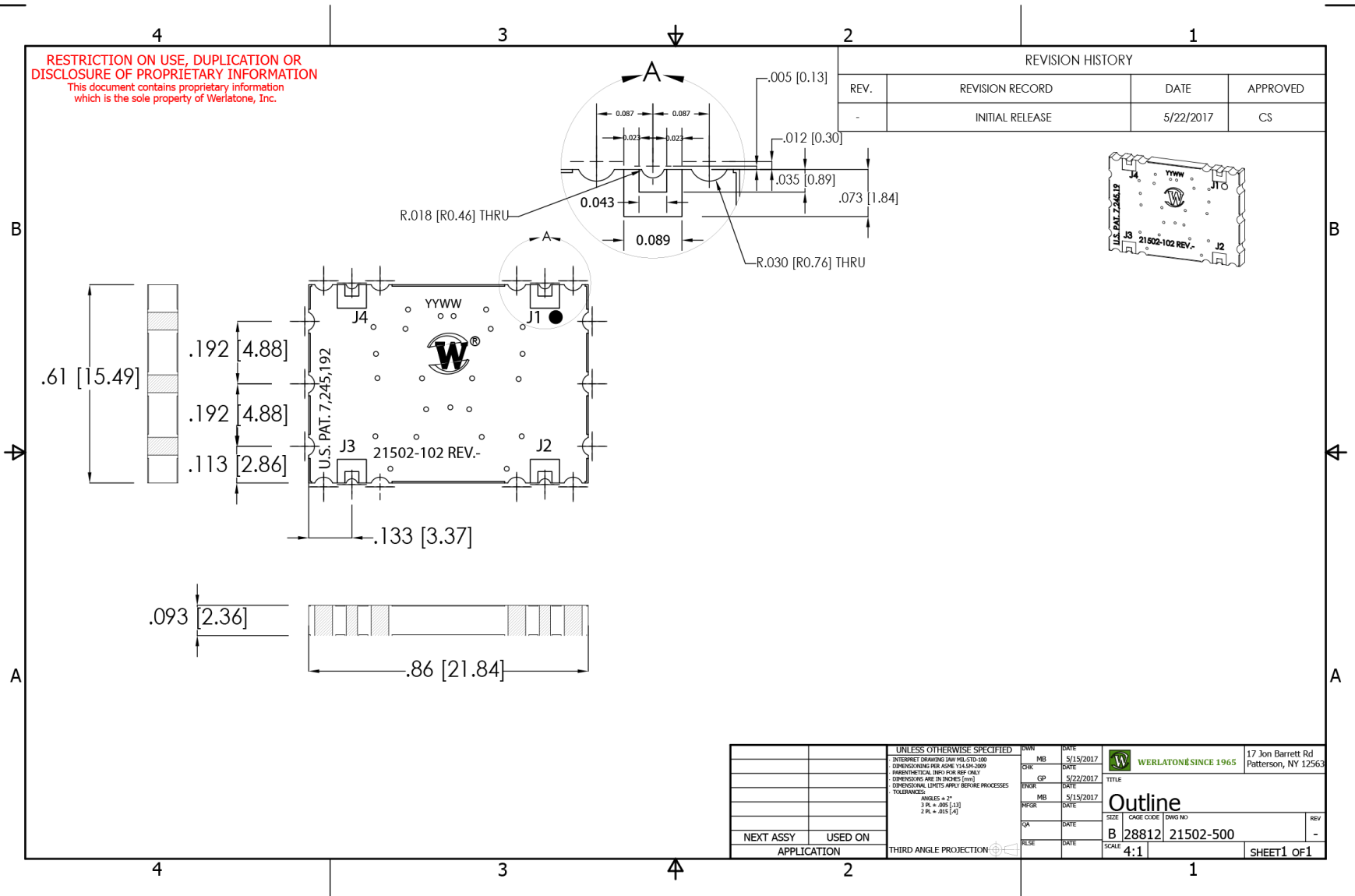
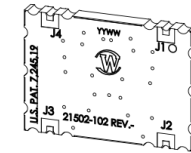
Werlatone, Inc.

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

REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	5/22/2017	CS



UNLESS OTHERWISE SPECIFIED		OWN	DATE	WERLATONE SINCE 1965 17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH: DIMENSIONING PER ASME Y14.5M-2009 DIMENSIONAL UNITS PER REF ONLY DIMENSIONS ARE IN INCHES (mm) DIMENSIONAL UNITS APPLY BEFORE PROCESSES TOLERANCES: ANGLES = 3° 3 PL = .006 [13] 2 PL = .015 [4]		MB	5/15/2017	
NEXT ASSY USED ON		CHK	DATE	Outline SIZE CAGE CODE DWG NO B 28812 21502-500
APPLICATION		GP	5/22/2017	
THIRD ANGLE PROJECTION		ENGR	DATE	REV
		MB	5/15/2017	-
		QA	DATE	SCALE
		RELE	DATE	4:1
				SHEET 1 OF 1

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