

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:

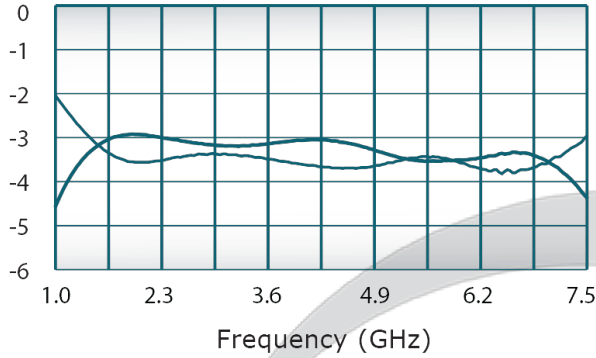
J1	J2	J3	J4
Input	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Input	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Input	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Input

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.

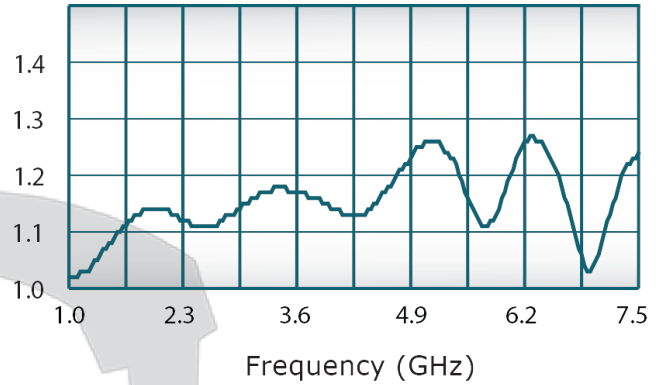


Performance Data (Specifications subject to change without notice):

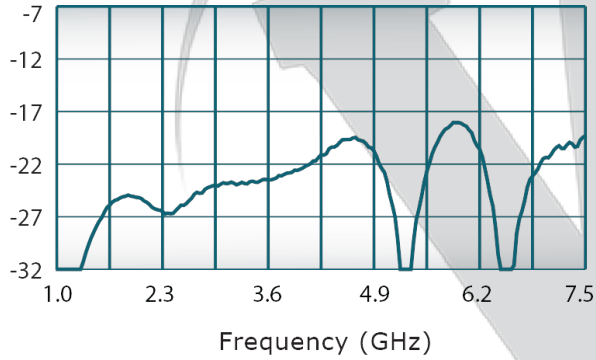
Coupling:



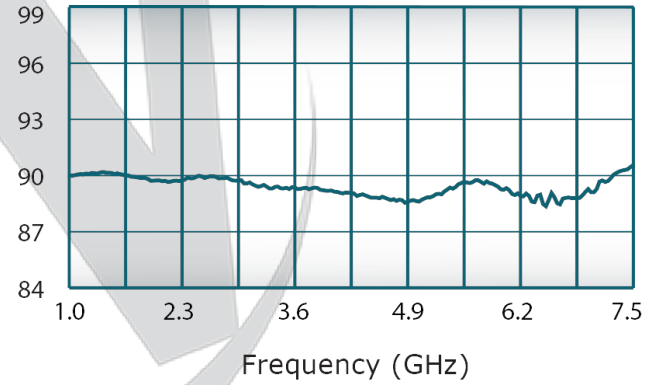
VSWR:



Isolation:



Phase Balance:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of

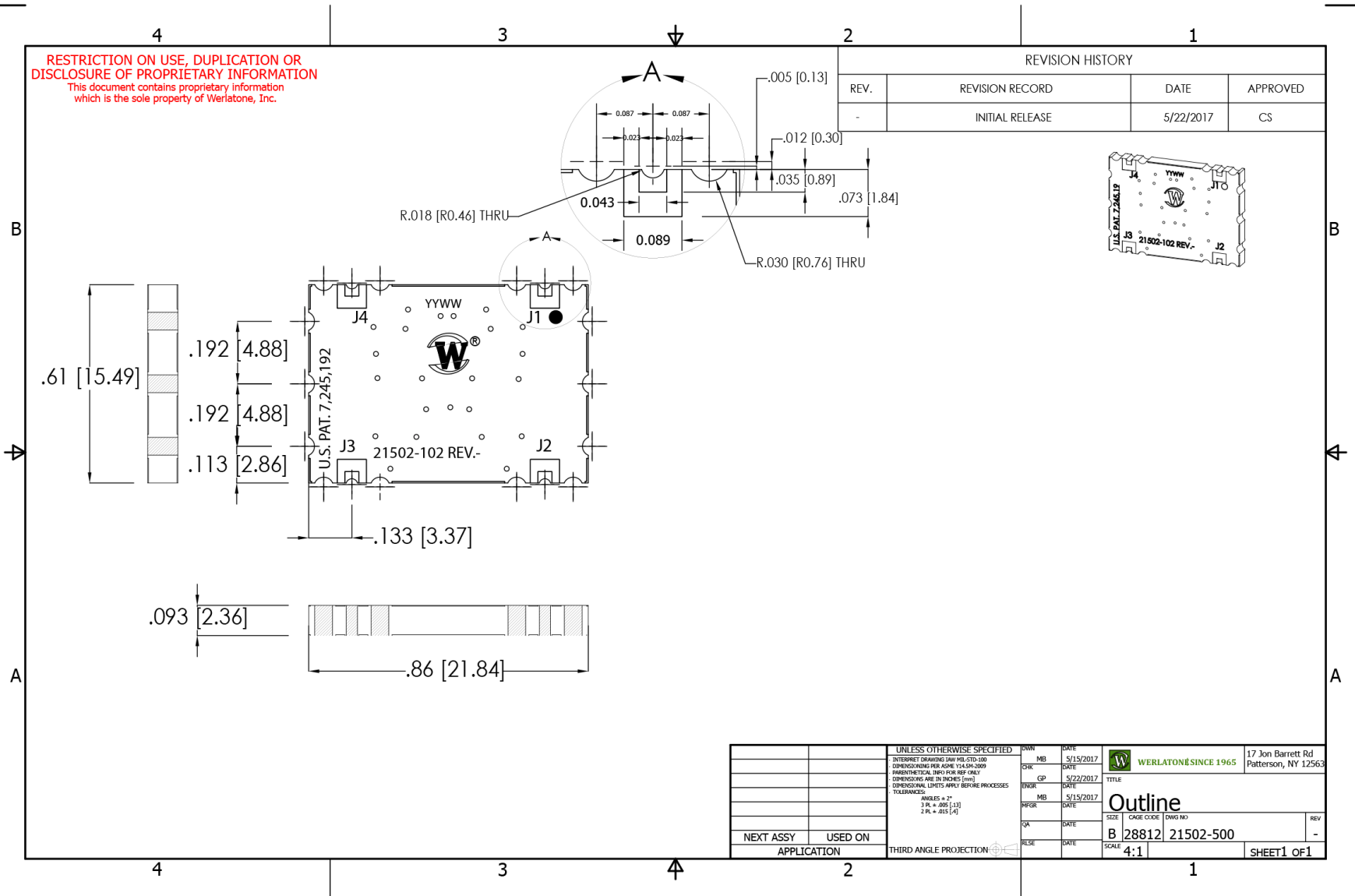
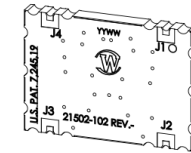
Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

RESTRICTION ON USE, DUPLICATION OR DISCLOSURE OF PROPRIETARY INFORMATION
 This document contains proprietary information which is the sole property of Werlatone, Inc.

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		CHK	DATE	Outline SIZE CAGE CODE DWG NO B 28812 21502-500
USED ON		GP	5/22/2017	
APPLICATION		ENGR	DATE	REV
THIRD ANGLE PROJECTION		MB	5/15/2017	-
		QA	DATE	SCALE
		REL	DATE	4:1
				SHEET 1 OF 1

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of 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