

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:	700 - 6000 MHz
Power:	100 W CW
Insertion Loss	0.55 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.6 dB Max.
Isolation:	16 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH10756-Ag: Immersion Silver (RoHS)
Size:	0.744 x 0.450 x 0.093"

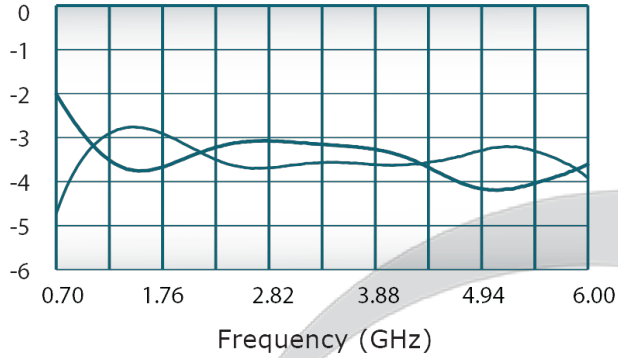
Port Configurations:

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

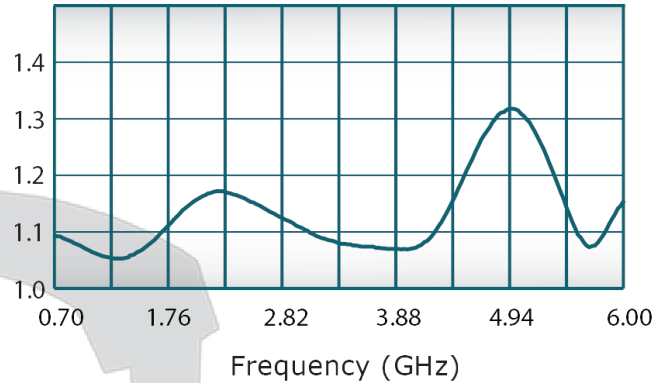
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the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

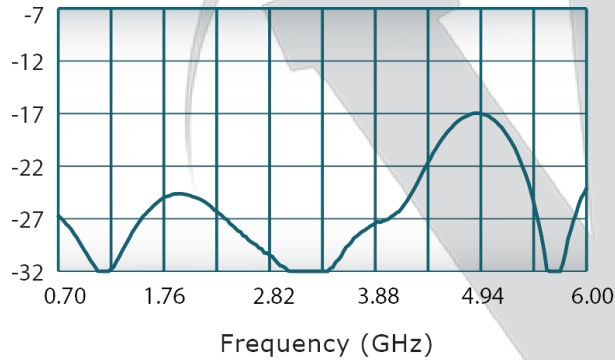
Coupling:



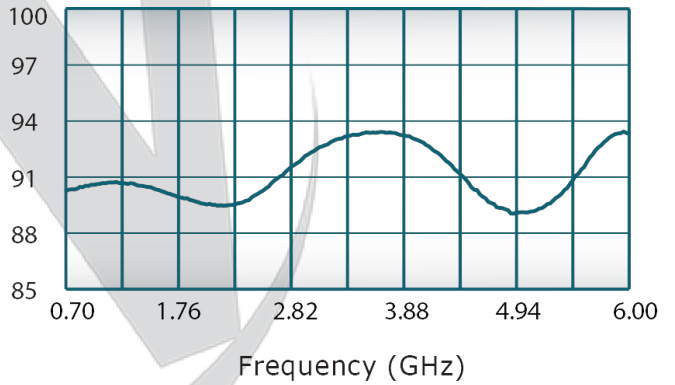
VSWR:



Isolation:



Phase Balance:



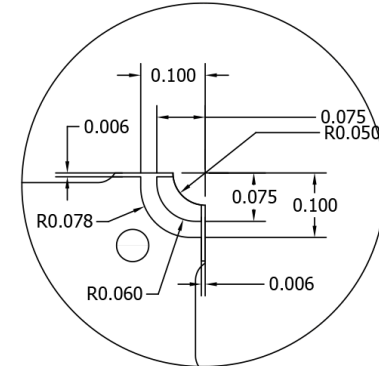
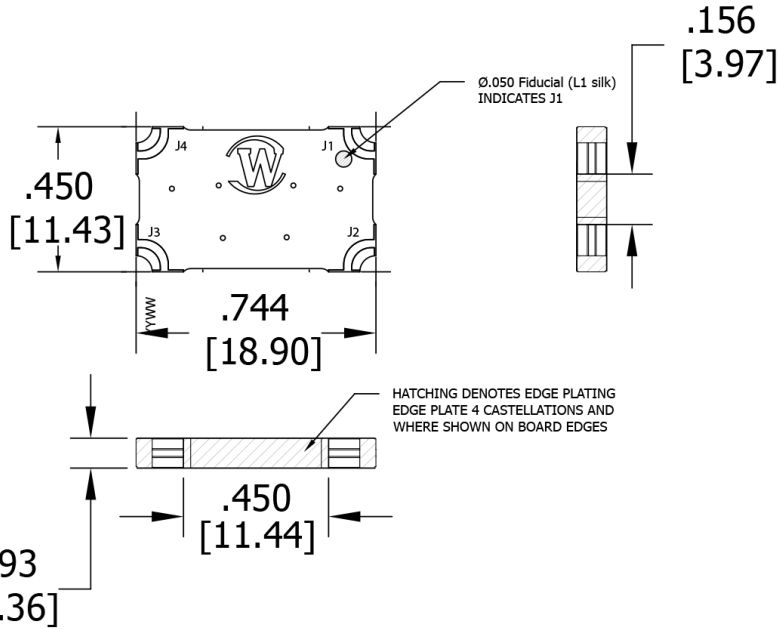
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Werlatone, Inc.

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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Preliminary		
A	ECN9141	8/11/2016	MB
B	ECN9512	2/12/2018	CS
C	ECN9573	5/10/2018	CS



DETAIL A (4X)
SCALE 4:1

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
<ul style="list-style-type: none"> • INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES ARE FOR REF ONLY • DIMENSIONS ARE IN INCHES [mm] • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES 		MB	5/25/16		
		CHK	DATE	TITLE	
		ENGR	DATE		
		MB	5/25/16	SIZE: A CAGE CODE: 28812 DWG NO: 21441-500	
		MFGR	DATE		
		QA	DATE	SCALE: 2:1 SHEET 1 OF 1	
		RLSE	DATE		
THIRD ANGLE PROJECTION					

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