



PRODUCT DATA SHEET

QH10756

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

Input
-3 dB, 0°
-3 dB, -90°
Isolated

J2

-3 dB, 0°
Input
Isolated
-3 dB, -90°

J3

-3 dB, -90°
Isolated
Input
-3 dB, 0°

J4

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.



WERLATONE

Model QH10756

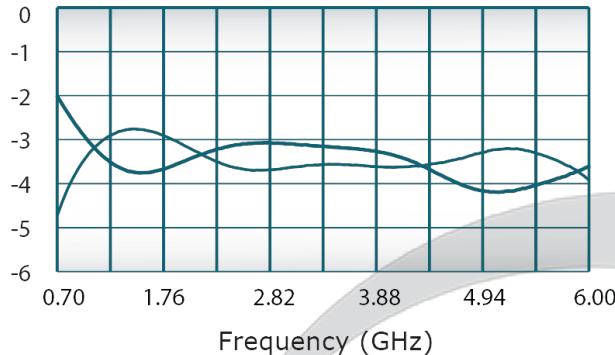
90° Hybrids Surface Mount (SMT) & Drop

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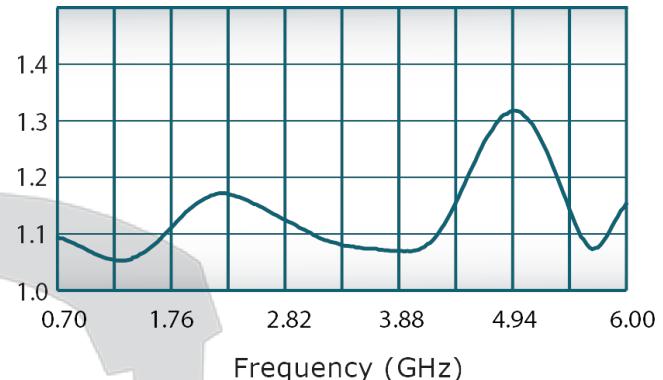
QH10756

Performance Data (Specifications subject to change without notice):

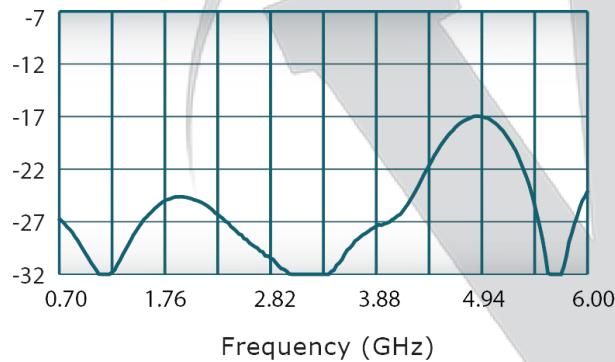
Coupling:



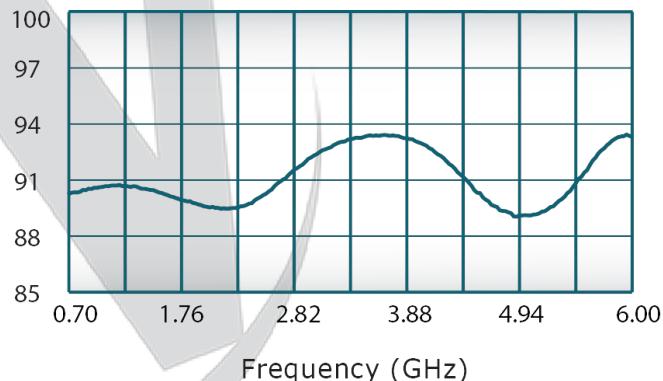
VSWR:



Isolation:



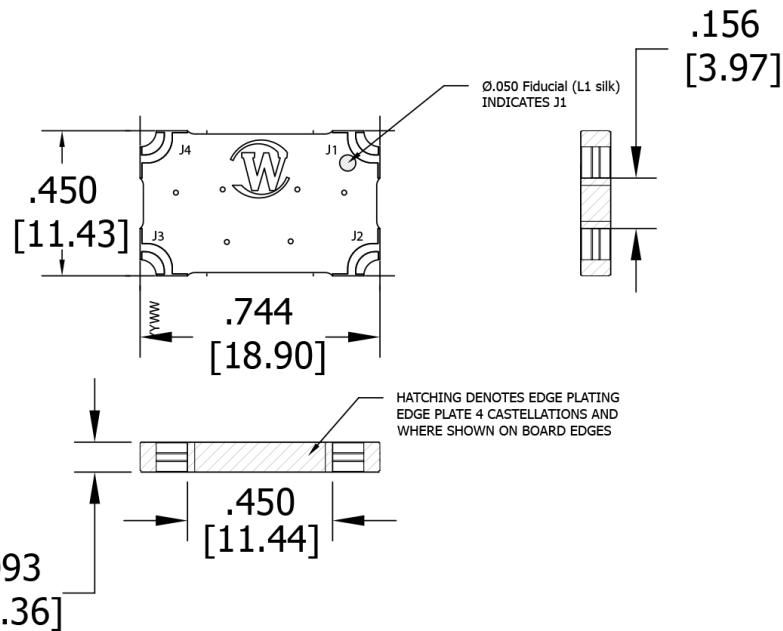
Phase Balance:



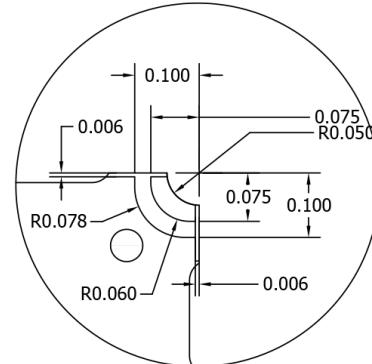
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	Preliminary		
A	ECN9141	8/11/2016	MB
B	ECN9512	2/12/2018	CS
C	ECN9573	5/10/2018	CS



DETAIL A (4X)
SCALE 4:1

B

B

+

+

A

A

UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965		17 Jon Barrett Rd
•	INTERPRET DRAWING IAW MIL-STD-100	MB	5/25/16	W		Patterson, NY 12563
•	DIMENSIONING AND TOLERANCING ASME Y14.5M-2009	CHK	DATE			
•	PARTS ARE TO BE INCHES UNLESS OTHERWISE SPECIFIED	ENGR	DATE			
•	DIMENSIONS ARE IN INCHES [MM]	MFGR	DATE			
•	DIMENSIONAL LIMITS APPLY BEFORE	QA	DATE	SIZE	CAGE CODE	DWG NO
•	PROCESSES	RLSE	DATE	A	28812	21441-500
•	TOLERANCES: ANGLES $\pm 2^\circ$ 3 PL $\pm .010$ [.25] 2 PL $\pm .015$ [.4]			REV		
THIRD ANGLE PROJECTION				2:1		SHEET 1 OF 1

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