

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: $\pm 5^\circ$ 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.

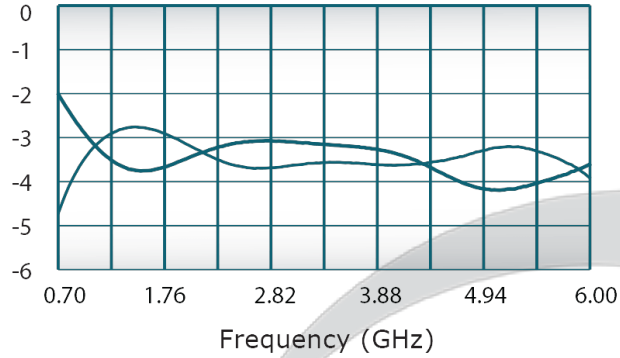


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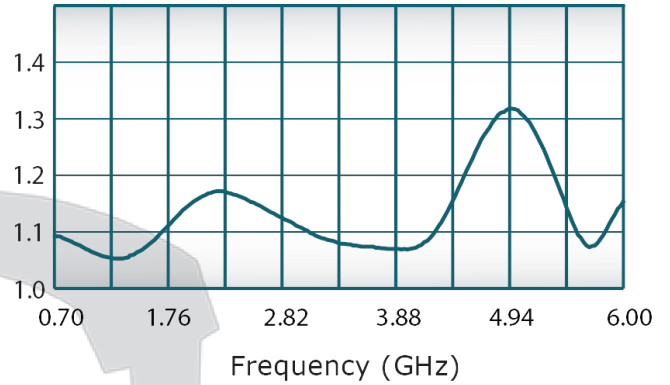
QH10756

Performance Data (Specifications subject to change without notice):

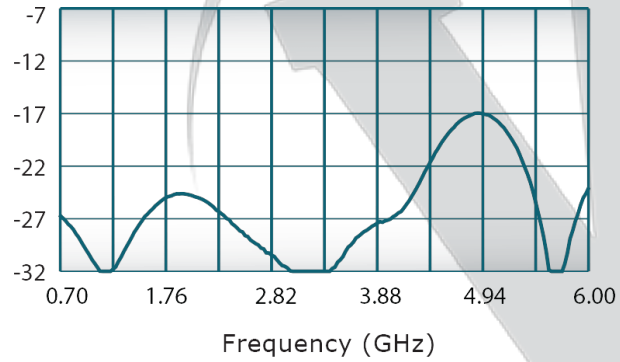
Coupling:



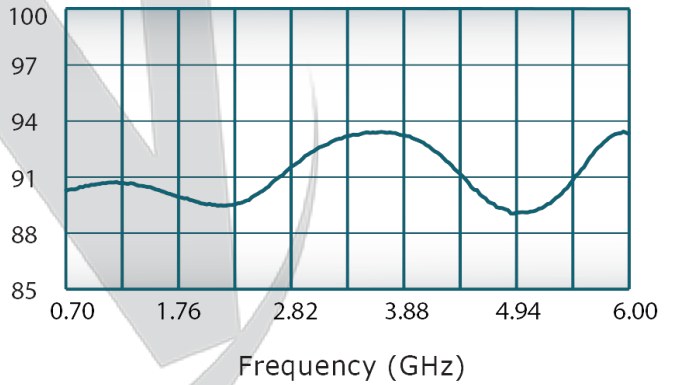
VSWR:



Isolation:

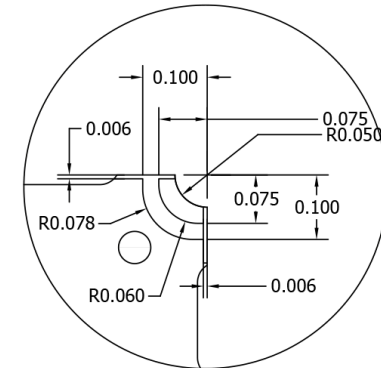
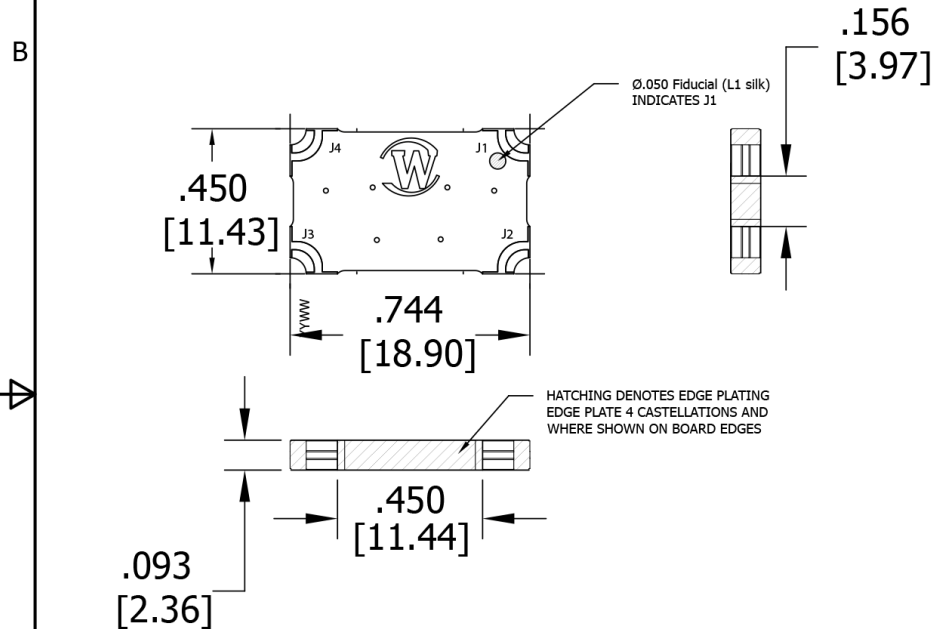


Phase Balance:



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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

UNLESS OTHERWISE SPECIFIED		DWN	DATE	W WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563		
• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHEtical INFO FOR REF ONLY • DIMENSIONS ARE IN INCHES [mm] • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL ± .010 [.25] 2 PL ± .015 [.4]		MB	5/25/16					
		CHK	DATE	TITLE				
		ENGR	DATE					
		MB	5/25/16					
		THIRD ANGLE PROJECTION 		MFGR	DATE			SIZE
QA	DATE			A		28812	21441-500	C
RLSE	DATE			SCALE		2:1	SHEET 1 OF 1	

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