



PRODUCT DATA SHEET

QH7949

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: 500 - 1000 MHz
 Power: 500 W CW
 Insertion Loss 0.15 dB Max.
 VSWR: 1.25:1 Max.
 Phase Balance: ± 5° dB Max.
 Amplitude Balance: ± 0.55 dB Max.
 Isolation: 20 dB Min.

Mechanical Specifications:

Type: Surface Mount
 Plating Options: QH7900-Pb: Electrodeposited Tin/Lead
 Size: 2.5 x 0.75 x 0.27"

Port Configurations:

J1	J2	J3	J4
Sum Port	90° Port	0° Port	Isolated Port

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.

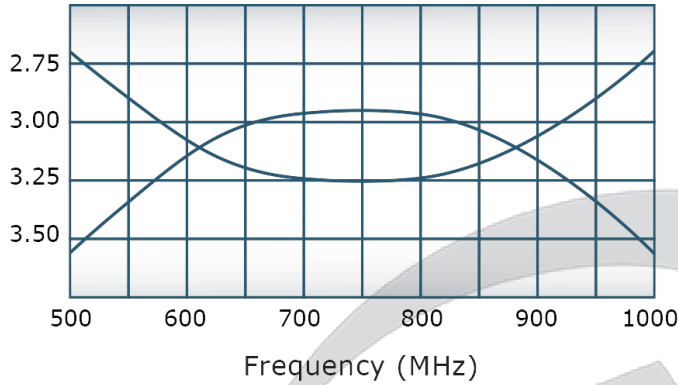
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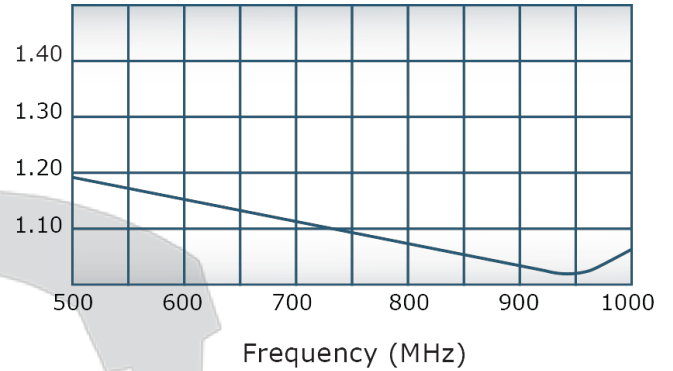


Performance Data (Specifications subject to change without notice):

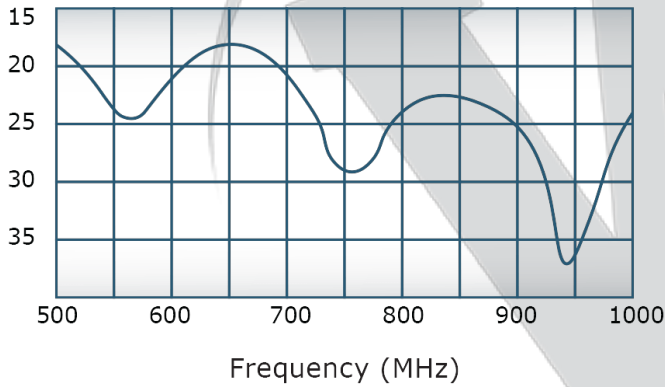
Coupling:



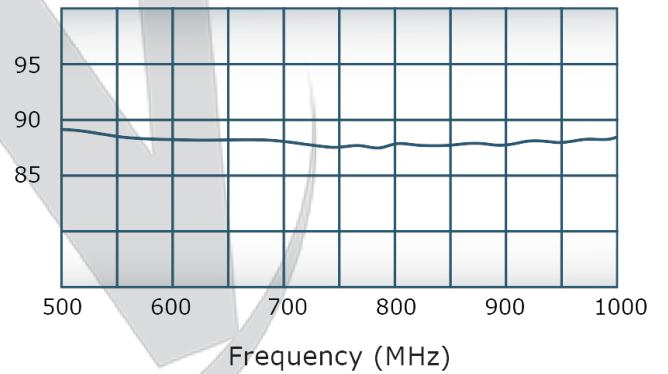
VSWR:



Isolation:



Phase Balance:



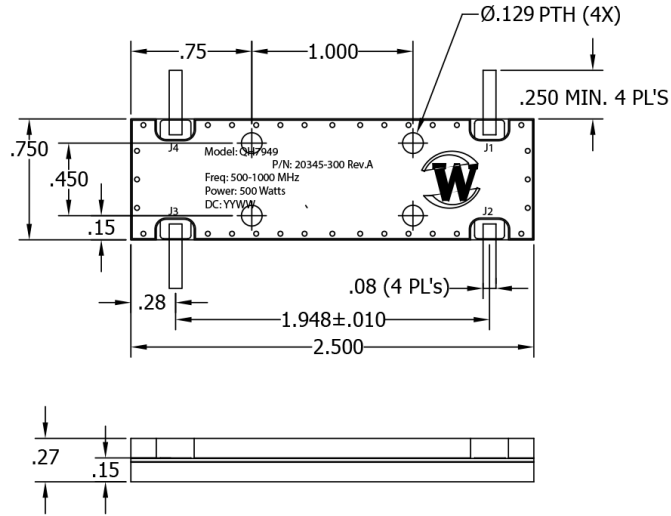
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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	5/21/2007	BW
A	ECN 9492	1/18/2018	BW



UNLESS OTHERWISE SPECIFIED • INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100 • DIMENSIONING PER ASME Y14.5M-2009 • PARENTHESES ARE FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSES • TOLERANCES: ANGLES ± 2° 3 PL ± .005 2 PL ± .015 THIRD ANGLE PROJECTION	DWN	DATE	WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
	GP	5/21/2007		
	CHK	DATE	TITLE	
	CS	5/21/2007		
	ENGR	DATE	SIZE: A CAGE CODE: 28812 DWG NO: 20345-500 REV: A	
	MFGR	DATE		
QA	DATE	SCALE: 1:1 SHEET 1 OF 1		
RLSE	DATE			

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