

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: $\pm 5^\circ$ 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.

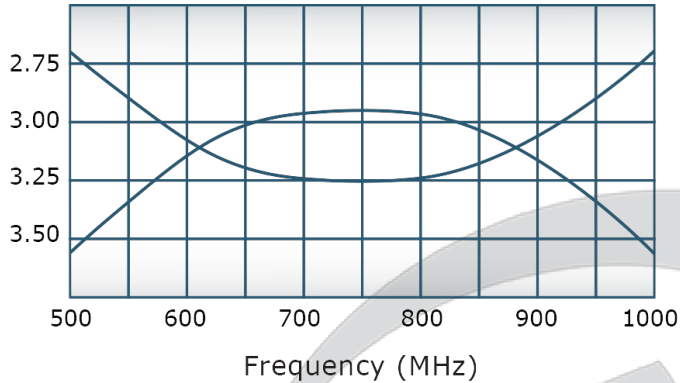


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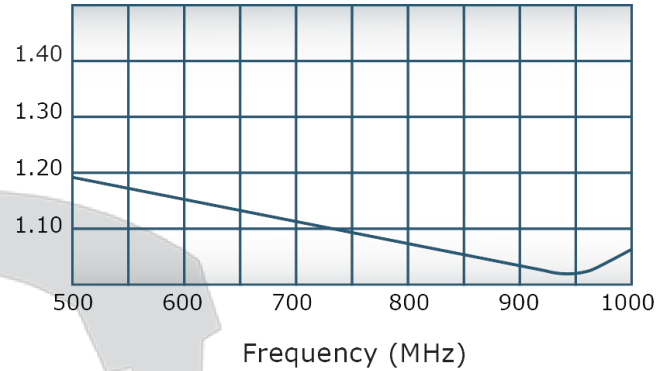
QH7949

Performance Data (Specifications subject to change without notice):

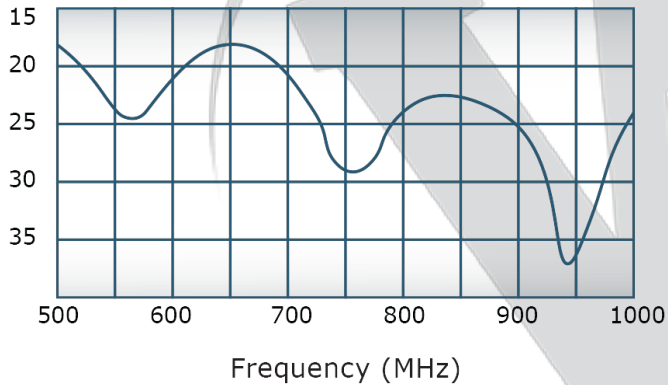
Coupling:



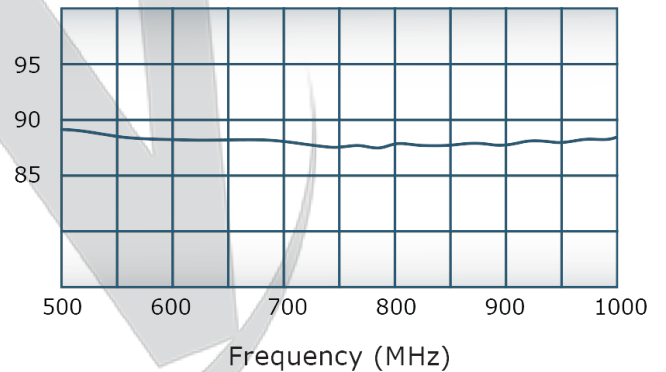
VSWR:



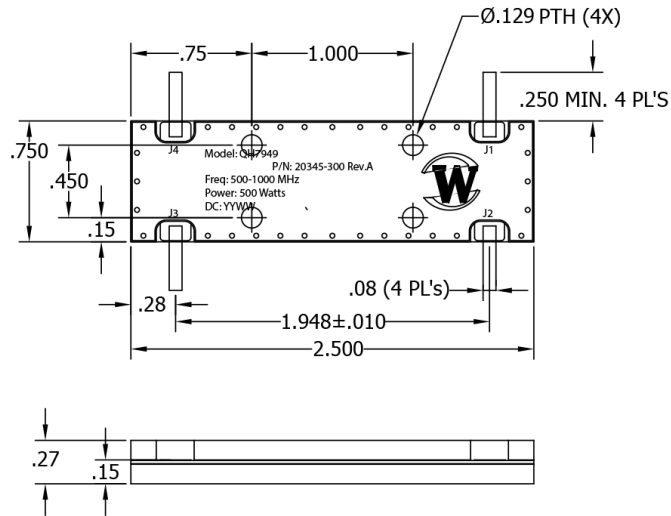
Isolation:



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

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