


**PRODUCT DATA SHEET**
**QH9056**
**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:	30 - 520 MHz
Power:	400 W CW
Insertion Loss	0.8 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° ± 8° dB Max.
Amplitude Balance:	± 1.2 dB Max. (35-520 MHz) ± 1.35 dB at 30 MHz
Isolation:	18 dB Min.

**Mechanical Specifications:**

Type:	Surface Mount
Plating Options:	QH9056-Pb: Electrodeposited Tin/Lead QH9056-Sn: Immersion Tin (RoHS Compliant) QH9056-Ag: Immersion Silver (RoHS Compliant) QH9056-Au (ENIG)
Weight:	3.8 oz.
Size:	4.0 x 1.7 x 0.29"

**Port Configurations:**

<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>J4</b>
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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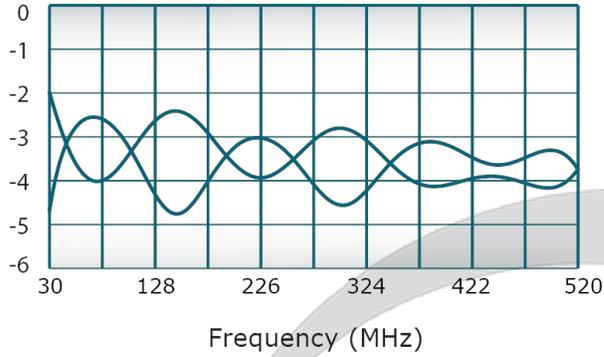


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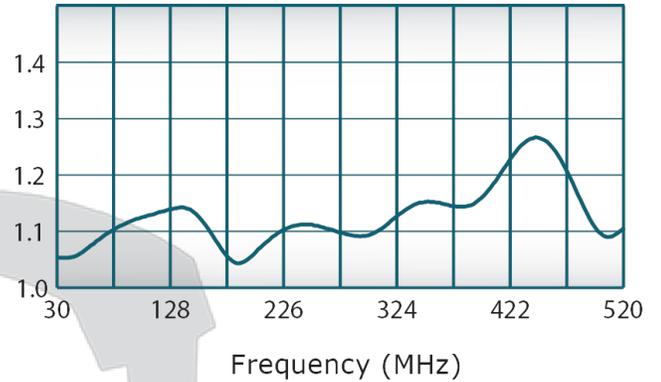
QH9056

**Performance Data (Specifications subject to change without notice):**

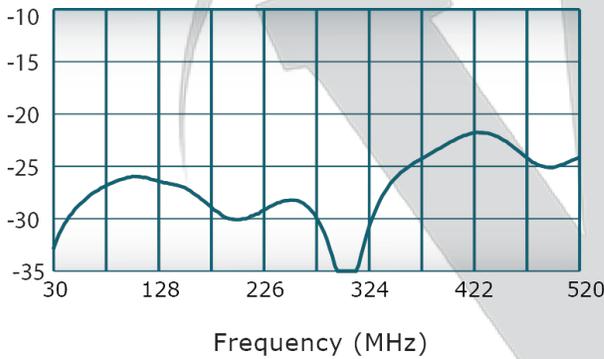
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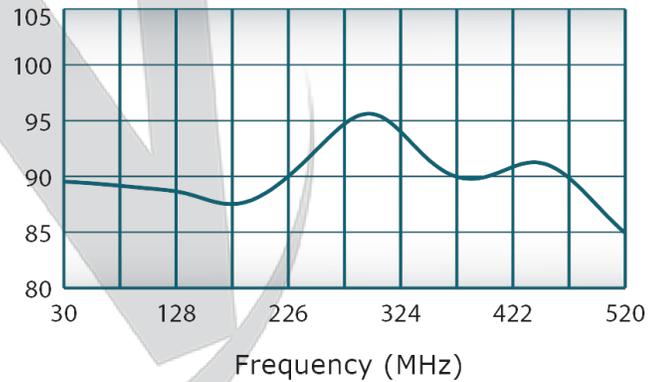
VSWR:



Isolation:



Phase Balance:



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