

## 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:

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.



# WERLATONE

Model QH9056

90° Hybrids Surface Mount (SMT) & Drop

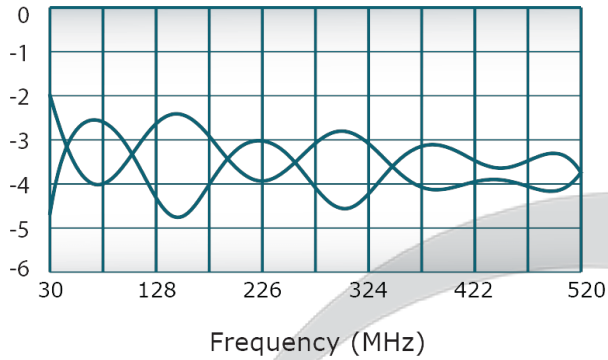


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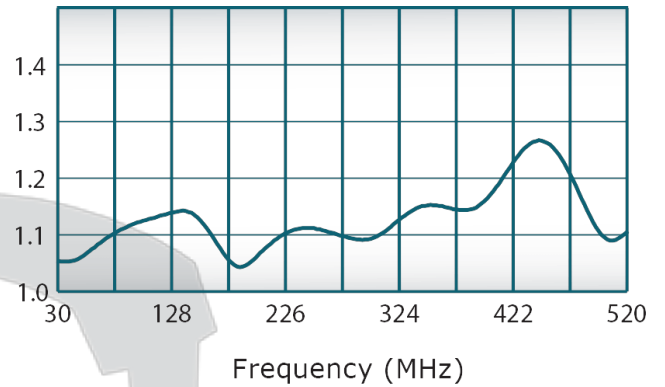
QH9056

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

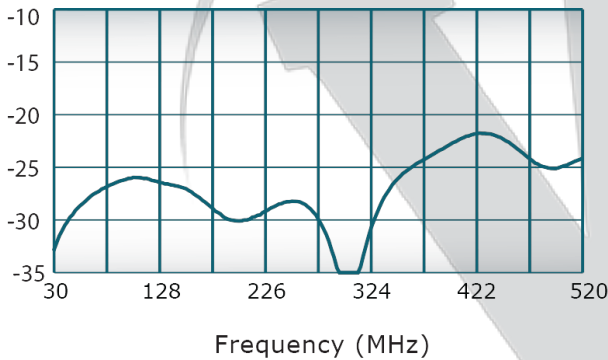
Coupling:



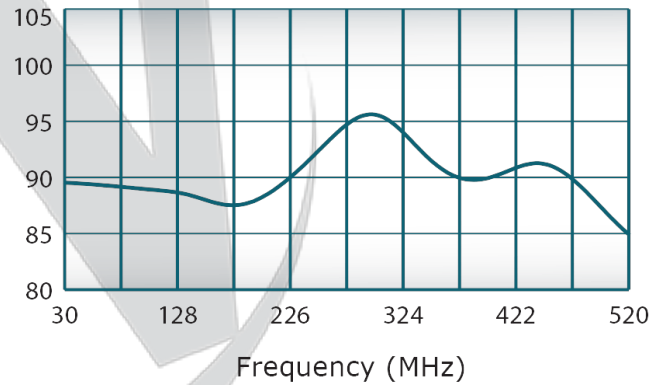
VSWR:



Isolation:



Phase Balance:



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