



## PRODUCT DATA SHEET

QH9496

### 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: 200 - 500 MHz  
 Power: 200 W CW  
 Insertion Loss: 0.4 dB Max.  
 VSWR: 1.25:1 Max.  
 Phase Balance:  $\pm 5^\circ$  dB Max.  
 Amplitude Balance:  $\pm 0.4$  dB Max.  
 Isolation: 25 dB Min.

### Mechanical Specifications:

Type: Surface Mount  
 Plating Options: QH9496-Pb: Electrodeposited Tin/Lead  
 QH9496-Sn: Immersion Tin (RoHS Compliant)  
 QH9496-Ag: Immersion Silver (RoHS Compliant)  
 QH9496-Au (ENIG)  
 Size: 2.8 x 1.25 x 0.16"

### Port Configurations:

Input	J1	J2	J3	J4
J1	---	Isolated	-3 dB, 0°	-3 dB, -90°
J2	Isolated	---	-3 dB, -90°	-3 dB, 0°
J3	-3 dB, 0°	-3 dB, -90°	---	Isolated
J4	-3 dB, -90°	-3 dB, 0°	Isolated	---

**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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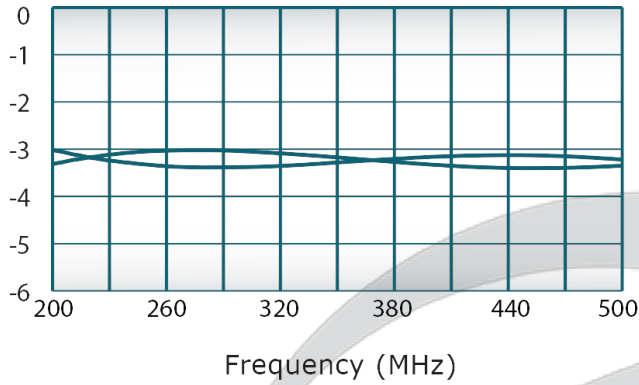


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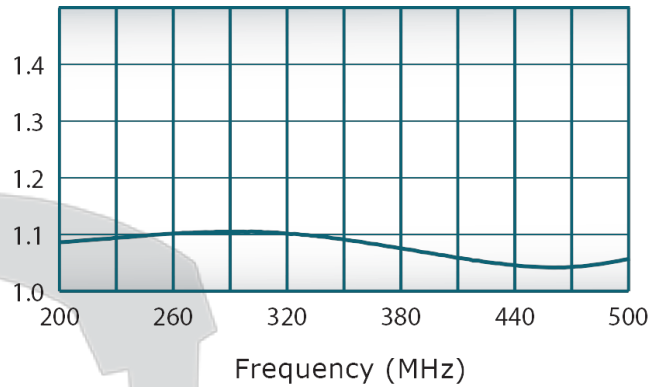
QH9496

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

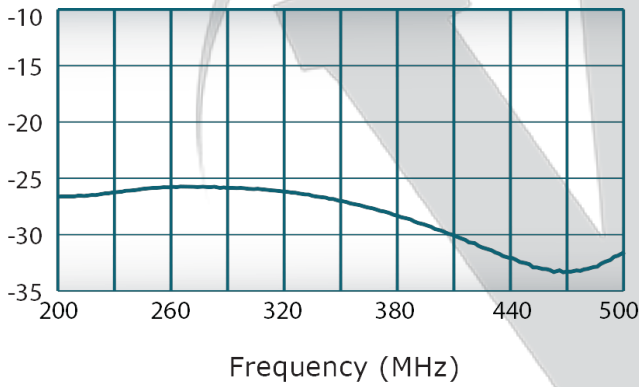
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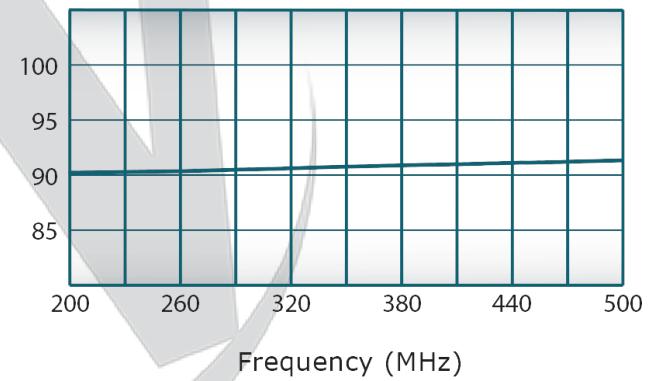
VSWR:



Isolation:



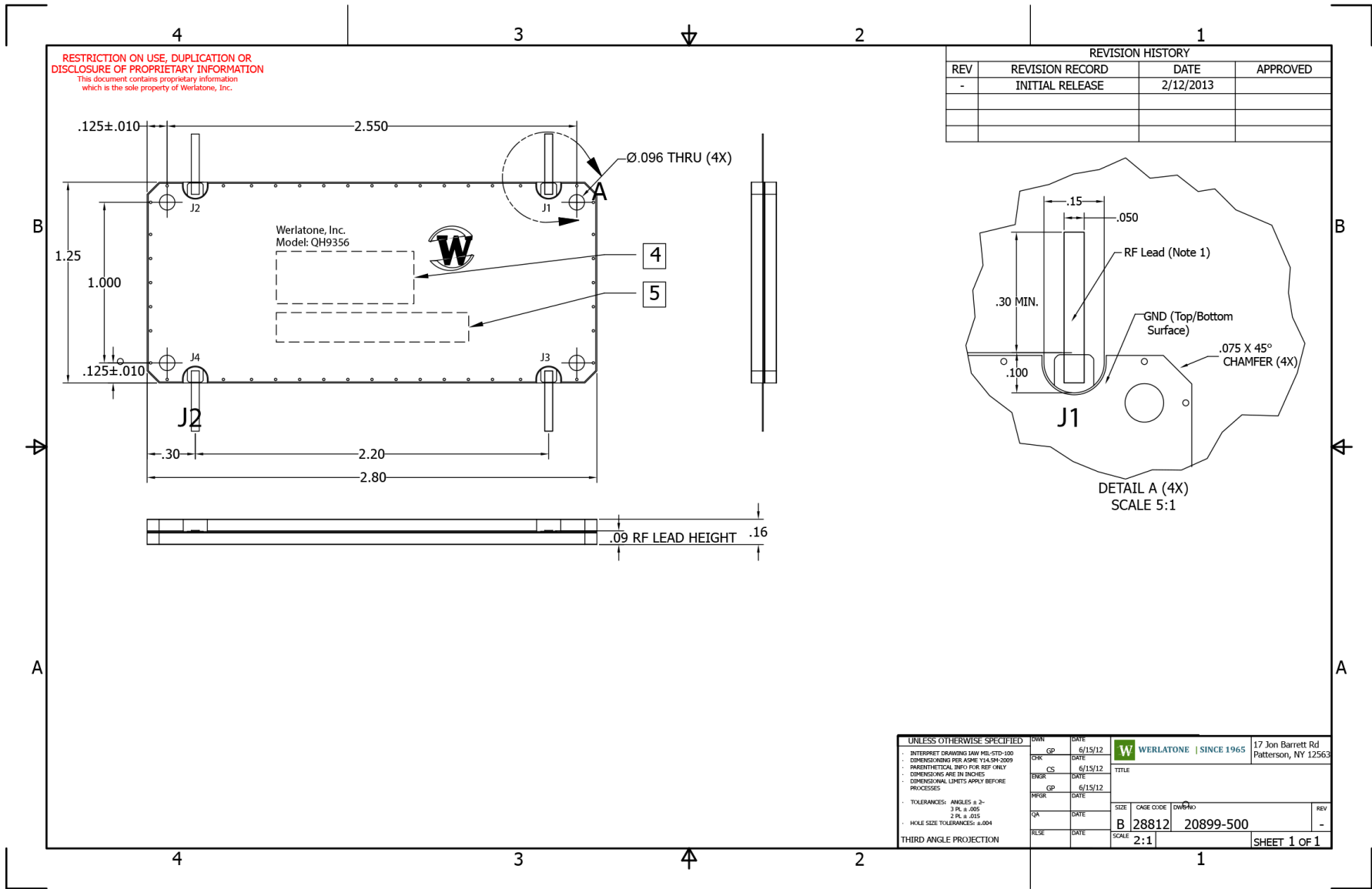
Phase Balance:



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