

PRODUCT DATA SHEET QH8922

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: 150 - 2000 MHzPower: 100 W CWInsertion Loss 0.75 dB Max.VSWR: 1.40:1 Max.Phase Balance: $90^{\circ} \pm 5^{\circ} \text{ dB Max.}$ Amplitude Balance: $\pm 1.0 \text{ dB Max.}$ Isolation: 17 dB Min.

Mechanical Specifications:

Type: Surface Mount

QH8922-Ag: Immersion Silver (RoHS

Compliant)

Weight: 0.4 oz.

Size: 1.47 x 1.13 x 0.16"

Port Configurations:

J1 **J4** J3 -3 dB, 0° -3 dB, -90° Isolated Sum -3 dB. 0° Sum Isolated -3 dB. -90° -3 dB. -90° Isolated -3 dB, 0° Sum Isolated -3 dB, -90° -3 dB, 0° Sum

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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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

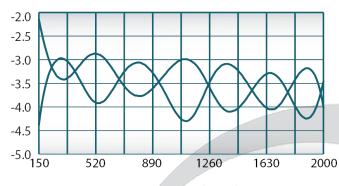




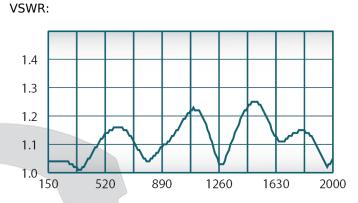
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Performance Data (Specifications subject to change without notice):

Coupling: VSWR:

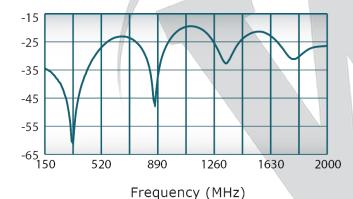




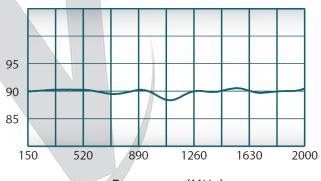


Frequency (MHz)

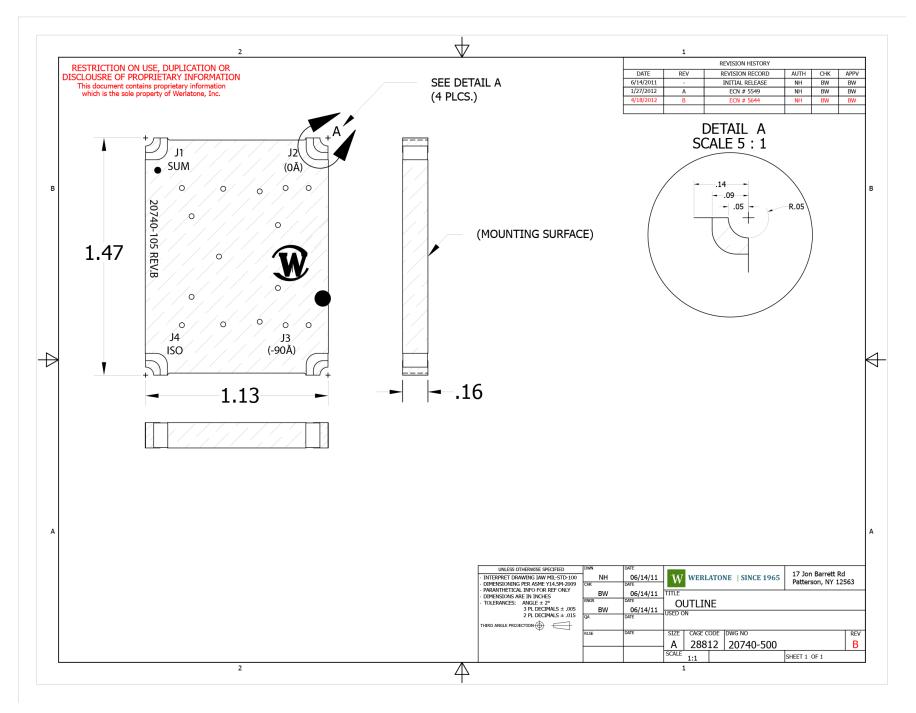
Isolation:



Phase Balance:



Frequency (MHz)



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