

PRODUCT DATA SHEET QH7862

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: 450 - 2500 MHz

Power: 125 W CW

Insertion Loss 0.5 dB Max.

VSWR: 1.30:1 Max.

Phase Balance: 90° ± 5° dB Max.

Amplitude Balance: ± 0.45 dB Max.

Isolation: 18 dB Min.

Mechanical Specifications:

Type: Surface Mount

Plating Options: QH7862-Pb: Electrodeposited Tin/Lead

QH7862-Sn: Immersion Tin (RoHS

Compliant)

QH7862-Ag: Immersion Silver (RoHS

Compliant)

OH7862-Au (ENIG)

Weight: 6 grams

Size: 1.5 x 1.1 x 0.095"

Port Configurations:

J1 J2 J3 J4 -3 dB, -90° Isolated Input -3 dB, 0° -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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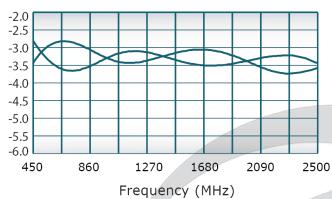
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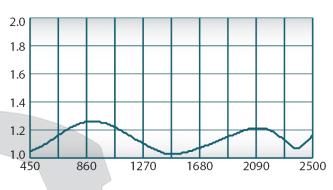
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Performance Data (Specifications subject to change without notice):



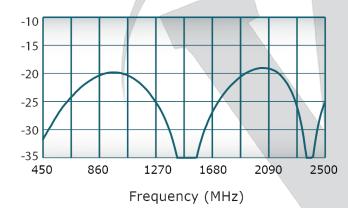


VSWR:

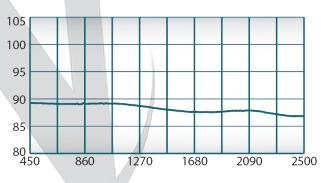


Frequency (MHz)

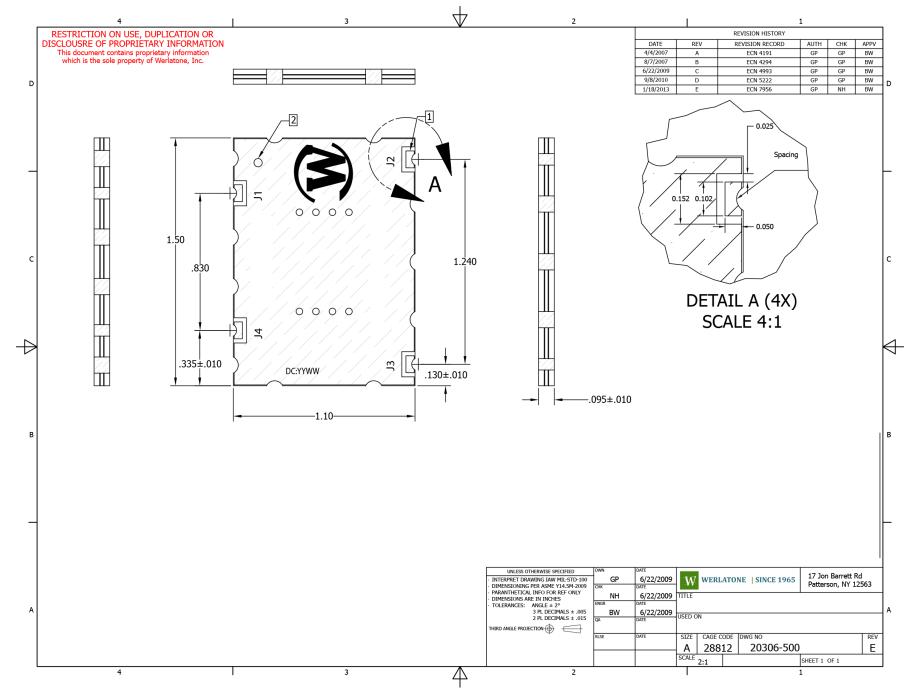
Isolation:



Phase Balance:



Frequency (MHz)



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