



QH8100

PRODUCT DATA SHEET 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:** 100 - 512 MHz Frequency: Power: 250 W CW Insertion Loss 0.45 dB Max. VSWR: 1.30:1 Max. $90^{\circ} \pm 5^{\circ} \text{ dB Max.}$ Phase Balance: Amplitude Balance: + 0.5 dB Max. Isolation: 20 dB Min. Mechanical Specifications: Surface Mount Type: Plating Options: QH8100-Pb: Electrodeposited Tin/Lead QH8100-Sn: Immersion Tin (RoHS Compliant) QH8100-Ag: Immersion Silver (RoHS Compliant) QH8100-Au (ENIG) Weight: 1.6 oz. 3.3 x 1.52 x 0.279" Size: **Port Configurations: J1** J2 14 J3 -3 dB, 0° -3 dB, -90° Isolated Sum -3 dB. 0° Isolated -3 dB, -90° Sum -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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PRODUCT DATA SHEET



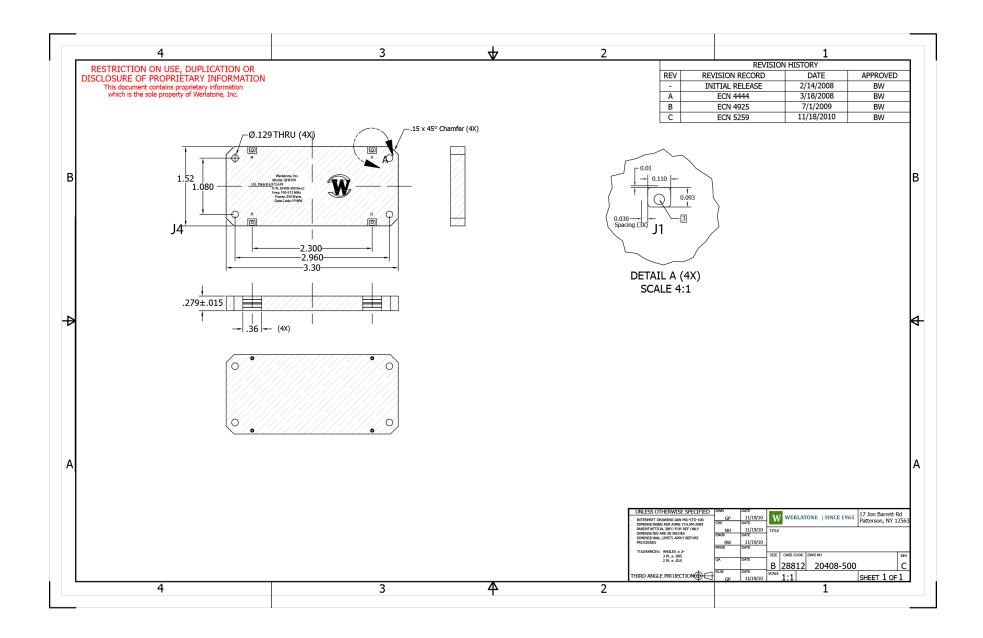
QH8100

Performance Data (Specifications subject to change without notice): Coupling: VSWR: 2.0 -2.0 1.8 -3.0 1.6 -4.0 1.4 -5.0 1.2 1.0 -6.0 182 265 347 100 430 512 347 512 100 182 265 430 Frequency (MHz) Frequency (MHz) Isolation: Phase Balance: 105 -15 100 -20 95 -25 90 -30 85 -35 80 -40 265 347 100 182 430 512 100 182 265 347 430 512 Frequency (MHz) Frequency (MHz)

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