



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.

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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



## **PRODUCT DATA SHEET**



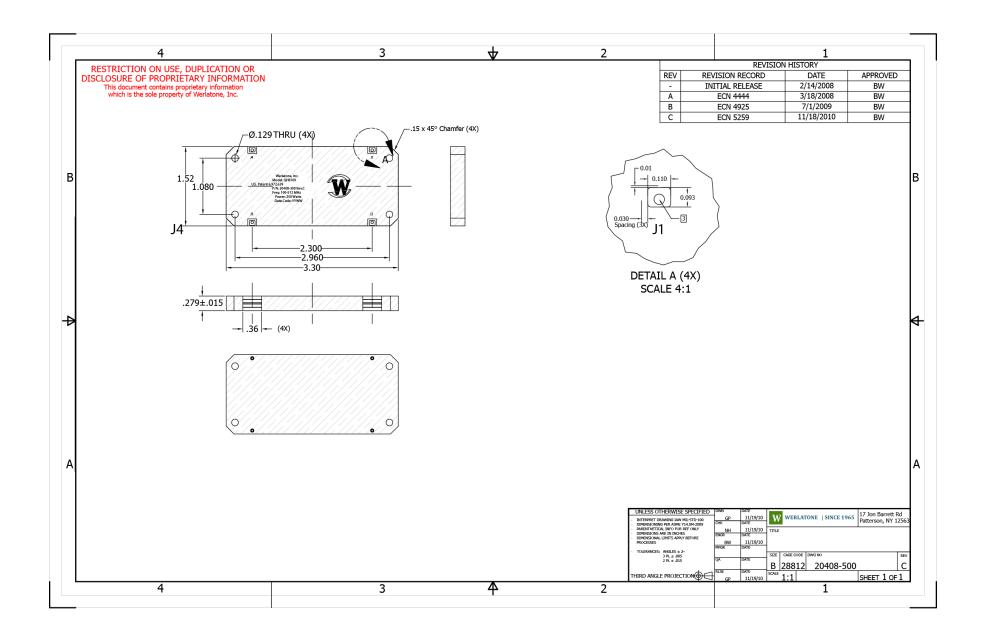
QH8100

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)

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

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

QH8100 Rev.-



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc. Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com