



QH7900

## **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:** 450 - 2800 MHz Frequency: Power: 125 W CW Insertion Loss 0.55 dB Max. VSWR: 1.35:1 Max. 90° <u>+</u> 5° dB Max. Phase Balance: Amplitude Balance: + 0.45 dB Max. Isolation: 18 dB Min. Mechanical Specifications: Surface Mount Type: Plating Options: QH7900-Pb: Electrodeposited Tin/Lead QH7900-Sn: Immersion Tin (RoHS Compliant) QH7900-Ag: Immersion Silver (RoHS Compliant) QH7900-Au (ENIG) Weight: 6 grams Size: 1.5 x 1.1 x 0.095" **Port Configurations: J1 J**4 J2 J3 -3 dB, 0° -3 dB, -90° Isolated Input -3 dB. 0° Isolated -3 dB, -90° Input -3 dB, -90° Isolated -3 dB, 0° Input 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°

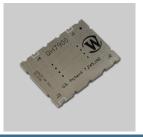
Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.

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**



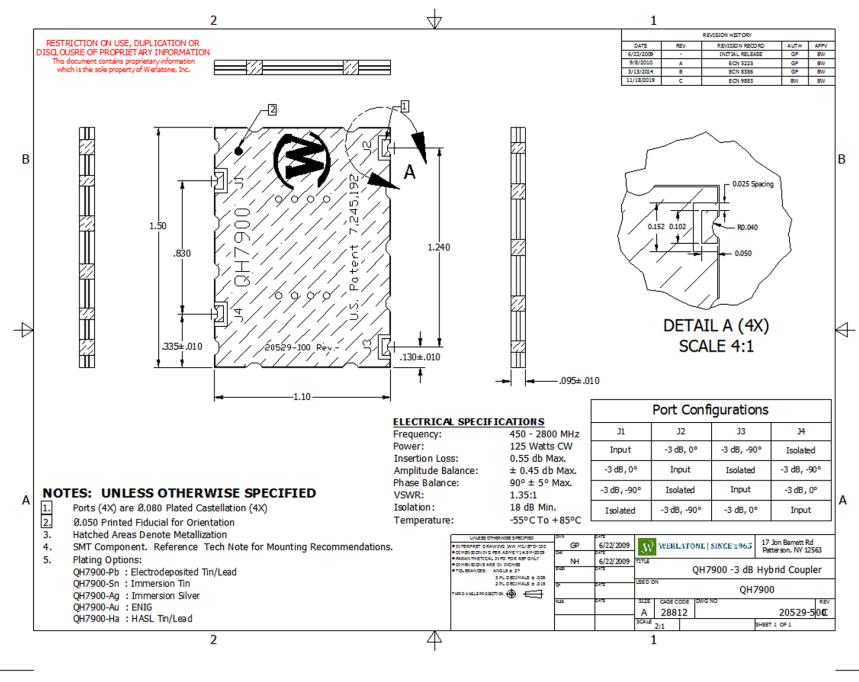
QH7900

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 -6.0 920 1390 1860 450 1390 1860 2330 2800 450 920 2330 2800 Frequency (MHz) Frequency (MHz) Isolation: Phase Balance: 105 -10 100 -15 95 -20 90 -25 -30 85 80 -35 450 920 1390 1860 2330 2800 920 1860 450 1390 2330 2800 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

QH7900 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