



PRODUCT DATA SHEET QH10828

### 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 Connectorized Drop-In & Surface Mount

## **Electrical Specifications:**

Frequency: 1000 - 8000 MHz
Power: 100 W CW
Insertion Loss 0.9 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: ± 5° dB Max.

Amplitude Balance:  $\pm 0.7 \text{ dB Max.} (1200-8000 \text{ MHz}) \pm 1.5 \text{ dB Max.} (1000-1200 \text{ MHz})$ 

Isolation: 17 dB Min.

#### **Mechanical Specifications:**

Type: Surface Mount

Plating Options: QH10828-Pb: Electrodeposited Tin/Lead

QH10828-Sn: Immersion Tin (RoHS Compliant)
QH10828-Ag: Immersion Silver (RoHS Compliant)

Size: 0.65 x 0.5 x 0.07"

#### **Port Configurations:**

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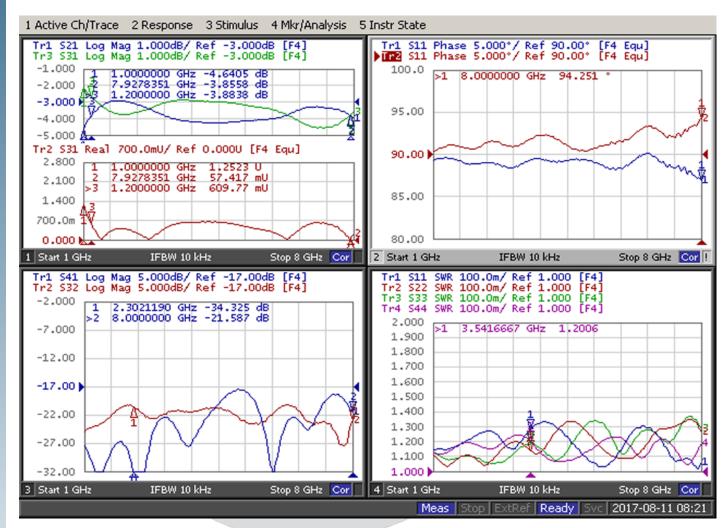




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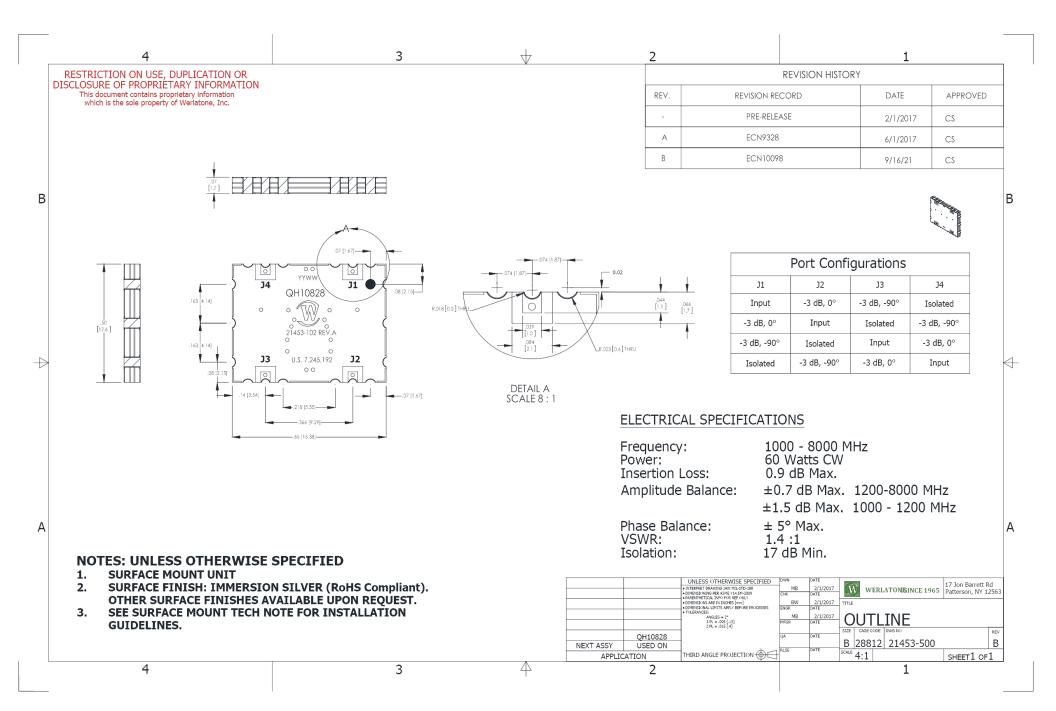
# Performance Data (Specifications subject to change without notice):

Plot 1: Coupling & Insertion Loss, Plot 2: Phase Balance, Plot 3: Isolation, Plot 4: VSWR



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