

PRODUCT DATA SHEET OH10350

## 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: 2 - 30 MHz
Power: 80 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: 90° ± 5° Max.
Amplitude Balance: ± 0.2 dB Max.
Isolation: 20 dB Min.

#### **Mechanical Specifications:**

Type: Connectorized Material: Aluminum 6061-T6

Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class

3 (Yellow Iridite) RoHS Compliant Available

Operating Temperature:  $-55^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$ Storage Temperature:  $-60^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ Size:  $4.0 \times 4.0 \times 2.25^{\circ}$ 

## **Connector Configurations:**

Model Sum Port (J1) 90°, 0° (J2,J3) Difference Port (J4)

QH10350-10 N Female N Female N Female

**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.

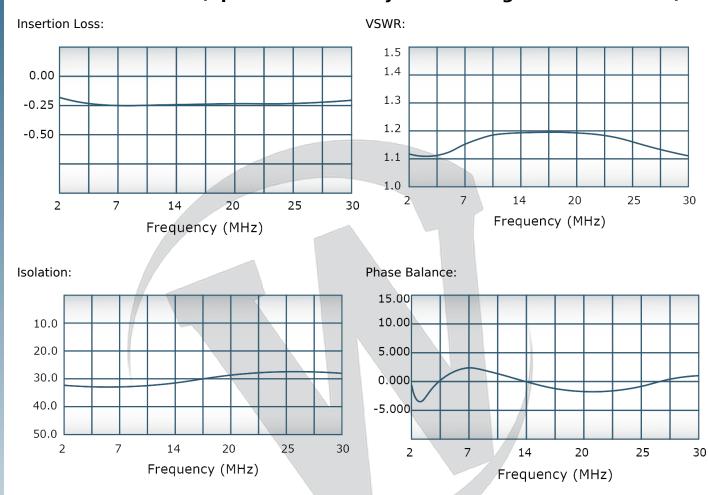
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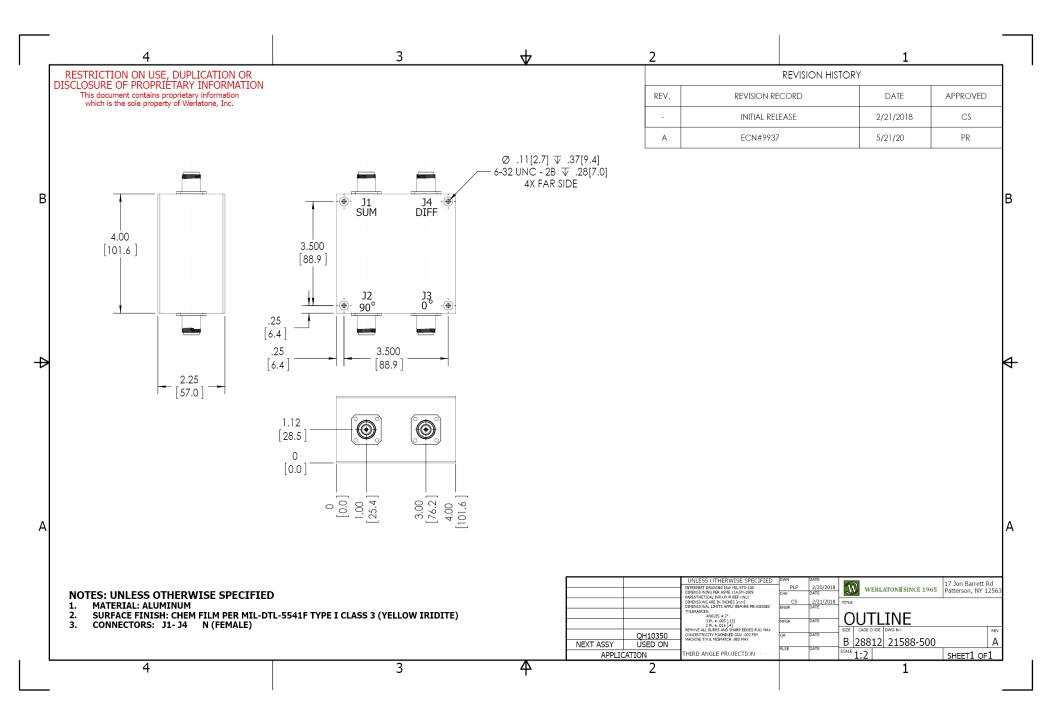


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# Performance Data (Specifications subject to change without notice):



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