



PRODUCT DATA SHEET QH7774

### 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: 100 - 1000 MHz Power: 50 W CW Insertion Loss: 0.6 dB Max. VSWR: 1.30:1 Max. Phase Balance:  $90^{\circ} \pm 5^{\circ} \text{ Max.}$  Amplitude Balance:  $\pm 1.0 \text{ dB Max.}$  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°C to +75°C Storage Temperature: -60°C to +85°C

Weight: 1 lb.

Size: 5.1 x 2.1 x 1.1"

# **Connector Configurations:**

Model Sum Port (J1) Inputs (J2,J3) Ext. Load Port QH7774-10 N Female N Female N Female QH7774-12 N Female SMA SMA OH7774-102 SMA SMA **SMA** 

**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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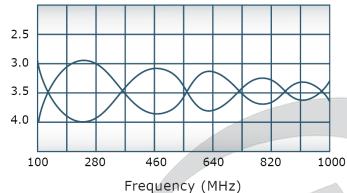


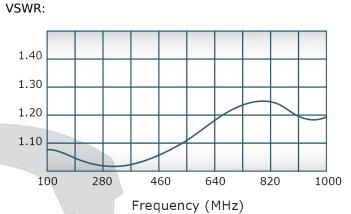


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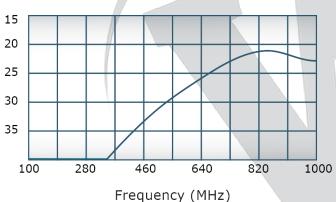
# Performance Data (Specifications subject to change without notice):

Coupling:

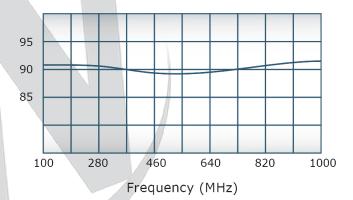


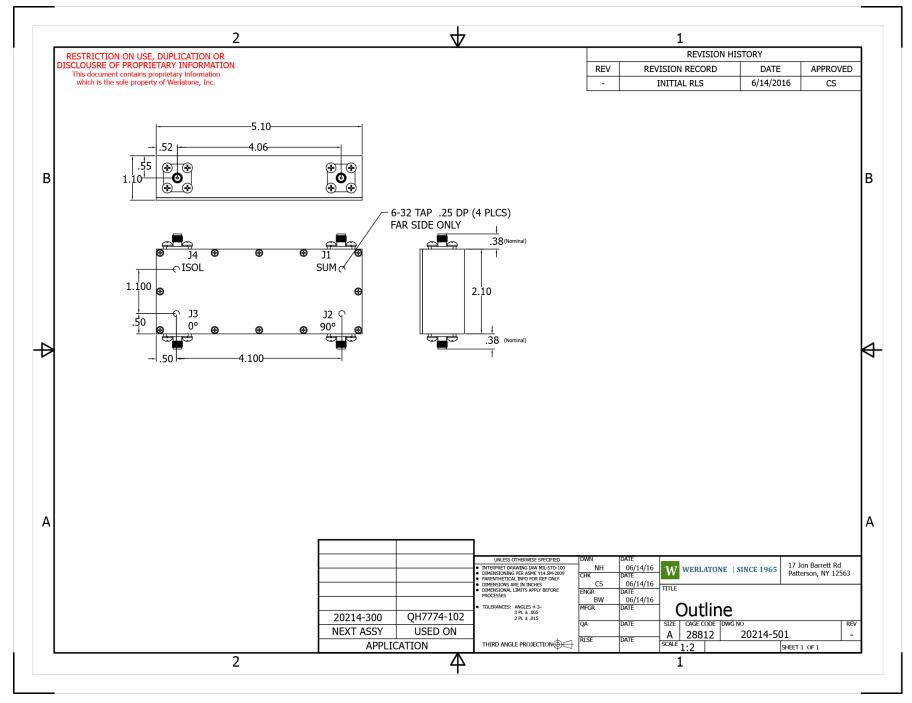


Isolation:



Phase Balance:





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