



PRODUCT DATA SHEET QH7540

### 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: 225 - 520 MHz Power: 300 W CW Insertion Loss: 0.25 dB Max. VSWR: 1.30:1 Max. Phase Balance: 90 $^{\circ}$   $\pm$  5 $^{\circ}$  Max. Amplitude Balance:  $\pm$  0.3 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: 0.75 lbs.

Size: 3.8 x 2.8 x 0.53"

# **Connector Configurations:**

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

 QH7540-102
 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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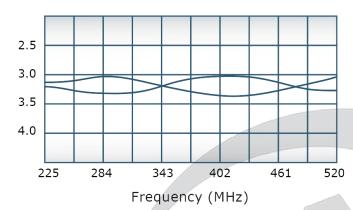




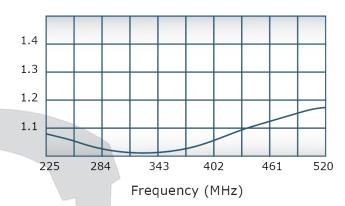
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# Performance Data (Specifications subject to change without notice):

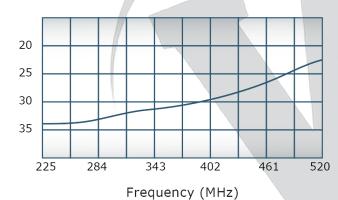
Coupling:



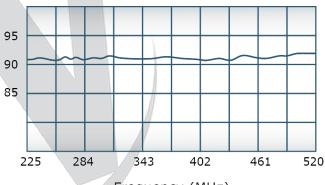
VSWR:

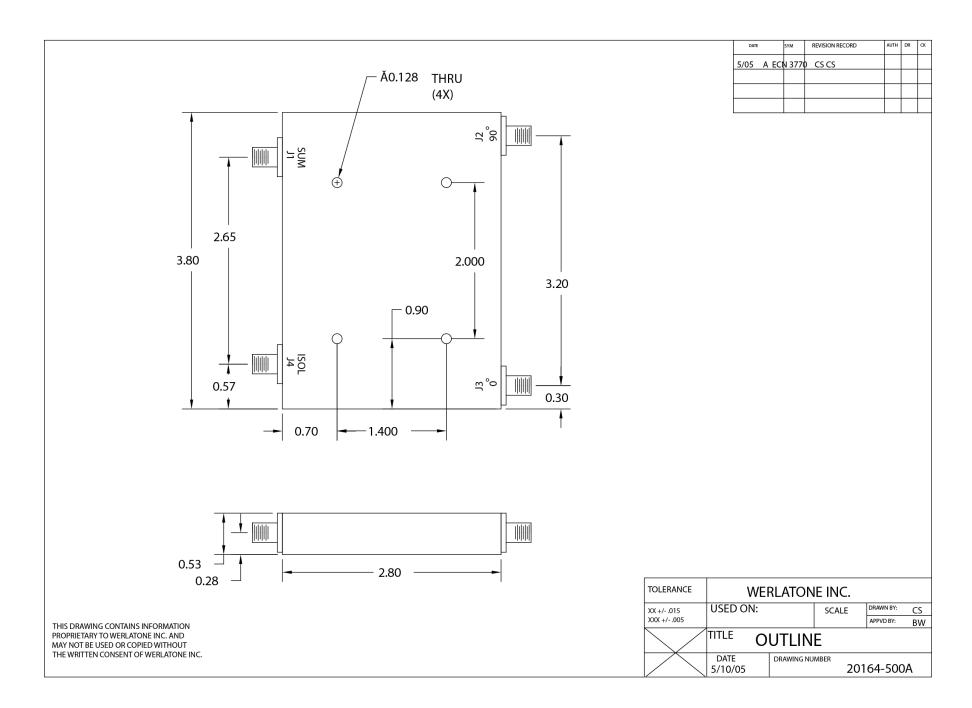


Isolation:



Phase Balance:





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