PRODUCT DATA SHEET QH3502

## 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: 20 - 200 MHz
Power: 25 W CW
Insertion Loss: 0.7 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: 90° ± 10° Max.
Amplitude Balance: ± 0.4 dB Max.
Isolation: 20 dB Min.

#### **Mechanical Specifications:**

Type: Connectorized 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:  $3.75 \times 3.0 \times 1.5^{\circ}$ 

### **Connector Configurations:**

Model	Sum Port (J1)	0°, 90° (J2,J3)	<b>Ext. Load Port</b>
QH3502-10	N Female	N Female	Not Applicable
QH3502-12	N Female	SMA	Not Applicable
QH3502-102	SMA	SMA	Not Applicable

**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.

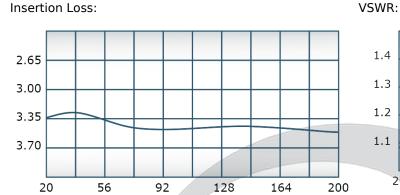
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# Performance Data (Specifications subject to change without notice):

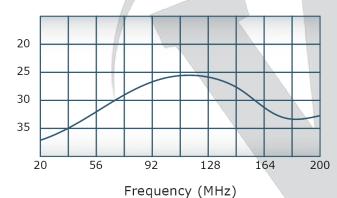


Frequency (MHz)

1.4 1.3 1.2 1.1 20 56 92 128 164 200

Frequency (MHz)

Isolation:



Phase Balance:

