

**PRODUCT DATA SHEET** QH12404

### 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 **Excellent Amplitude Balance** 

## **Electrical Specifications:**

Frequency: 2000 - 6000 MHz Power: 150 W CW Insertion Loss 0.55 dB Max. VSWR: 1.35:1 Max. + 5° dB Max. Phase Balance: Amplitude Balance: <u>+</u> 0.6 dB Max. Isolation: 18 dB Min.

### **Mechanical Specifications:**

Surface Mount Type:

QH12404-Ag: Immersion Silver (RoHS) Plating Options:

OH12404-Pb: Electrodeposited Tin/Lead

1.20 x 0.45 x 0.087" Size:

Weight: 5 grams

#### **Port Configurations:**

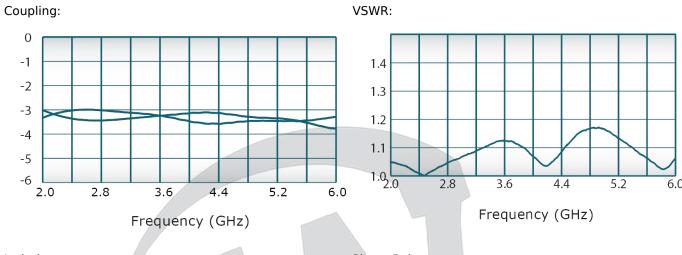
J1	J2	J3	J4
Input	-3 dB, 0°	-3 dB, +90°	Isolated
-3 dB, 0°	Input	Isolated	-3 dB, +90°
-3 dB, +90°	Isolated	Input	-3 dB, 0°
Isolated	-3 dB, +90°	-3 dB, 0°	Input

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.

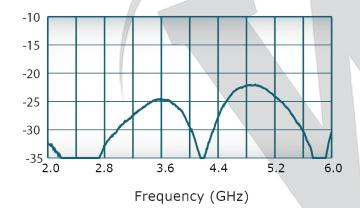


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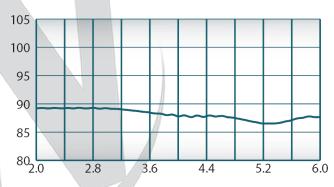
# Performance Data (Specifications subject to change without notice):



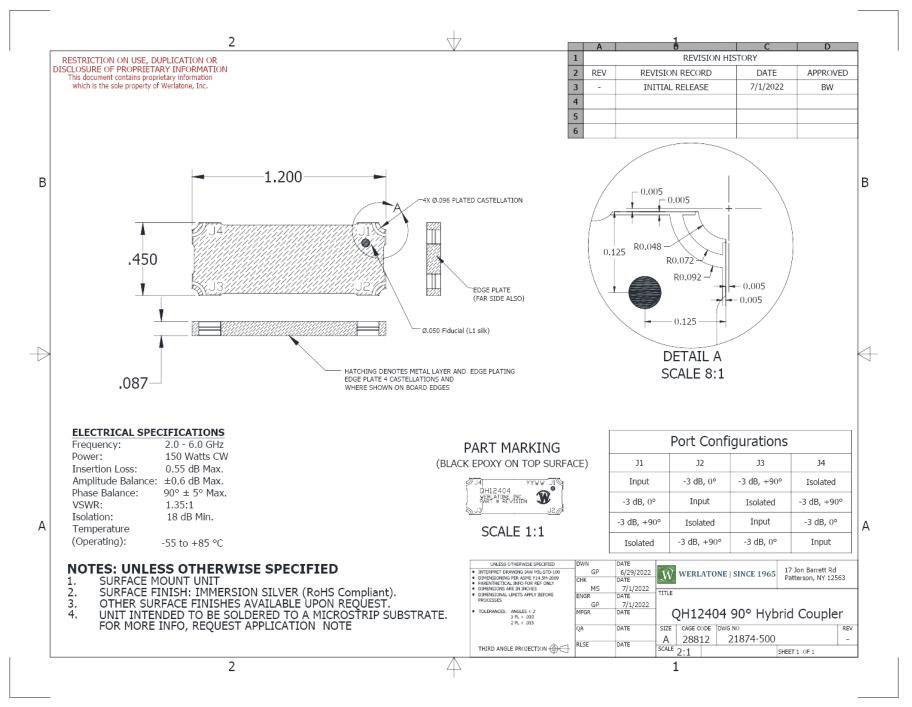
#### Isolation:



### Phase Balance:



Frequency (GHz)



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