



## 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.
Phase Balance:	± 5° dB Max.
Amplitude Balance:	± 0.6 dB Max.
Isolation:	18 dB Min.

### Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH12404-Ag: Immersion Silver (RoHS) QH12404-Pb: Electrodeposited Tin/Lead
Size:	1.20 x 0.45 x 0.087"
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.

**PRODUCT DATA SHEET**

**QH12404**

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

Coupling:

VSWR:

Isolation:

Phase Balance:



**Restriction on use, duplication, or disclosure of proprietary information.** This document contains proprietary information which is the sole property of Werlatone, Inc. Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com