



PRODUCT DATA SHEET QH11687

### 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: 500 - 6000 MHz
Power: 150 W CW
Insertion Loss 0.75 dB Max.
VSWR: 1.40:1 Max.

Phase Balance:  $90^{\circ} \pm 5^{\circ}$  dB Max.

Amplitude Balance: ± 1.0 dB (500-6000 MHz) 0.7 dB Max. (600-6000 MHz)

Isolation: 17 dB Min.

#### **Mechanical Specifications:**

Type: SMT

Plating Options: QH11687-Ag: Immersion Silver (RoHS)

Size: 1.28 x 1.08 x 0.13"

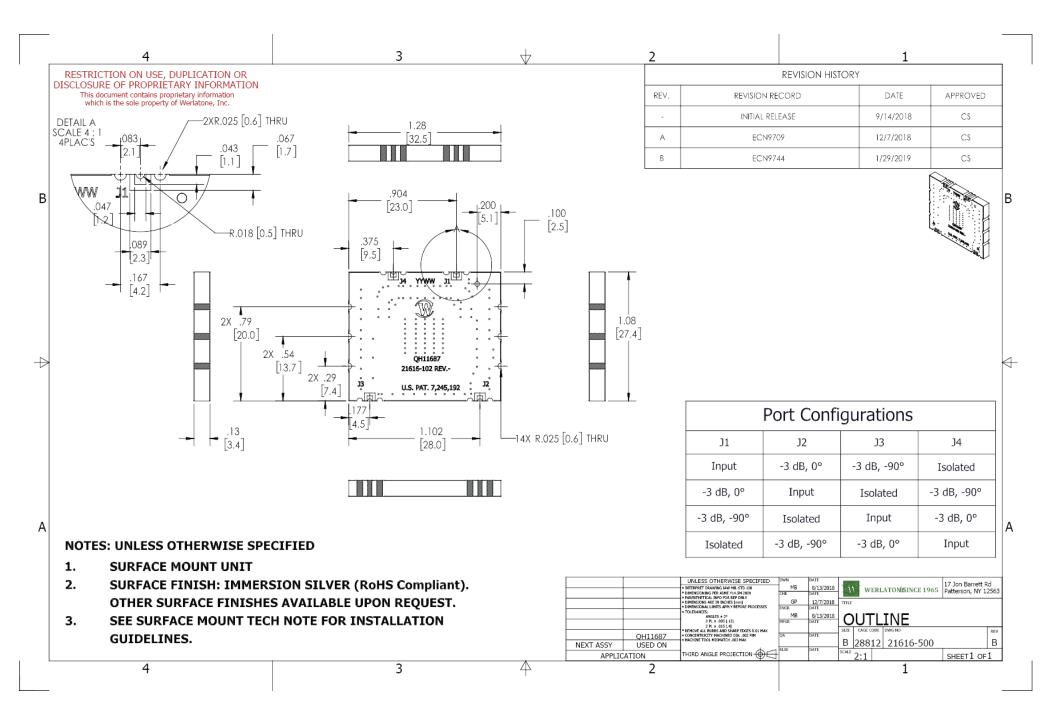
# **Port Configurations:**

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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