90° Hybrids Surface Mount (SMT) & Drop



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 MHzPower: 150 W CWInsertion Loss 0.75 dB Max.VSWR: 1.40:1 Max.Phase Balance: $90^{\circ} \pm 5^{\circ} \text{ dB Max.}$

Amplitude Balance: $\pm 1.0 \text{ dB } (500-6000 \text{ MHz}) 0.7 \text{ dB Max.} (600-6000 \text{ MHz})$

Isolation: 17 dB Min.

Mechanical Specifications:

Type: SMT

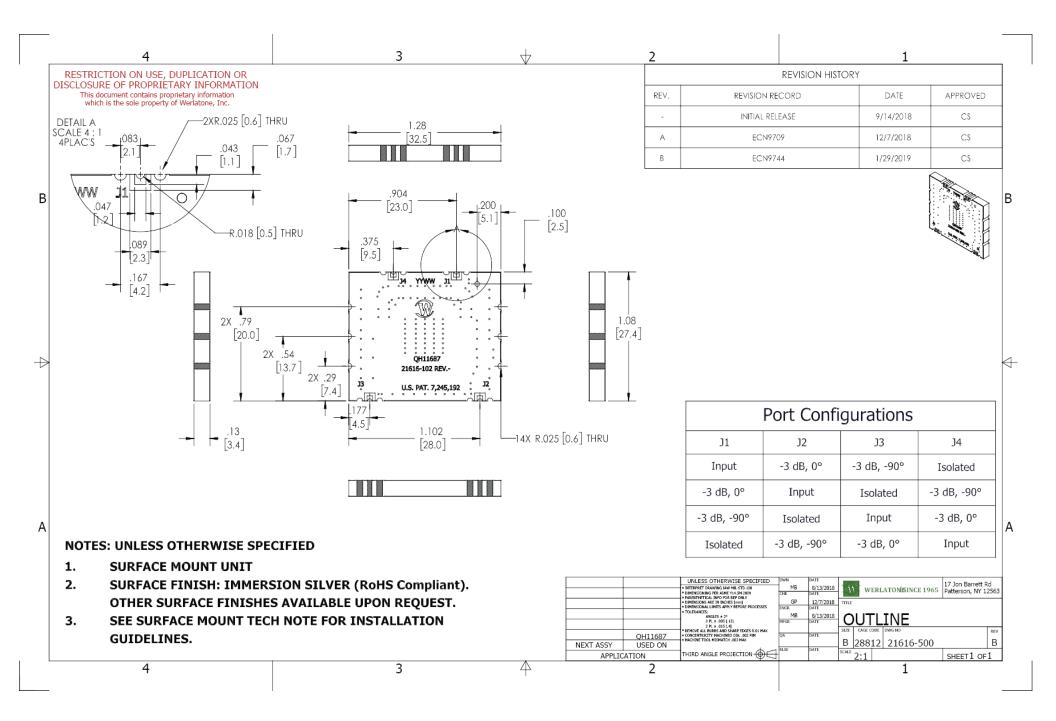
Plating Options: QH11687-Ag: Immersion Silver (RoHS)

Size: 1.28 x 1.08 x 0.13"

Port Configurations:

J2 J1 14 13 -3 dB, 0° -3 dB, -90° Isolated Input -3 dB, 0° -3 dB, -90° Input Isolated -3 dB, 0° -3 dB, -90° Isolated Input -3 dB, -90° Isolated -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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