



OH11687

PRODUCT DATA SHEET

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° <u>+</u> 5° dB Max.
Amplitude Balance:	<u>+</u> 1.0 dB (500-6000 MHz) 0.7 dB Max. (600-6000 MHz)
Isolation:	17 dB Min.

Mechanical Specifications:

Туре:	SMT
Plating Options:	QH11687-Ag: Immersion Silver (RoHS)
Size:	1.28 x 1.08 x 0.13"

Port Configurations:

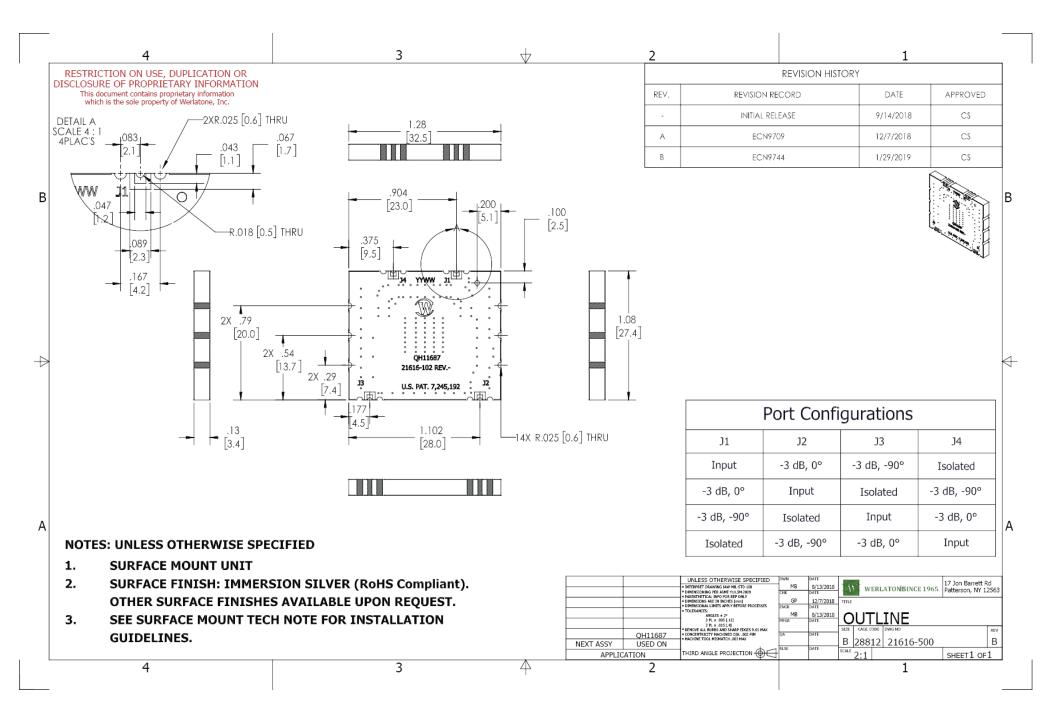
J1	J2	јз	J4
Input	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Input	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Input	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Input

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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QH11687 Rev.-



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