

PRODUCT DATA SHEET

QH9304

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:	60 - 1000 MHz
Power:	150 W CW
Insertion Loss:	1.0 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	90° ± 6° dB Max.
Amplitude Balance:	± 1.0 dB Max.
Isolation:	18 dB Min.

Mechanical Specifications:

Type:	Surface Mount
Plating Options:	QH9304-Pb: Electrodeposited Tin/Lead QH9304-Ag: Immersion Silver (RoHS Compliant) QH9304-Au (ENIG)
Weight:	1.7 oz.
Size:	2.0 x 1.0 x 0.16"

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

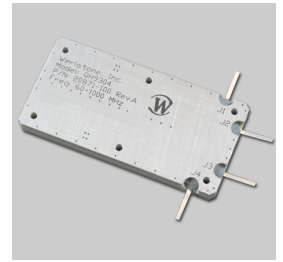
Werlatone's breakthrough technology allows us to build our existing line of Broadband 3 dB High Power 90° Hybrid Couplers. Connectorized 3 dB 90° Hybrid Coupler models are available with a choice of connectors. Several of our existing High Power 3 dB 90° RF Couplers are three port designs, wherein the difference port is internally terminated with a high power termination. This eliminates the need for a customer supplied external load for each Hybrid Coupler.



WERLATONE

Model QH9304

90° Hybrids Surface Mount (SMT) & Drop

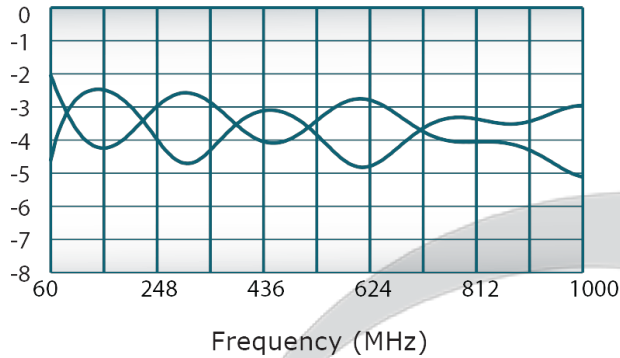


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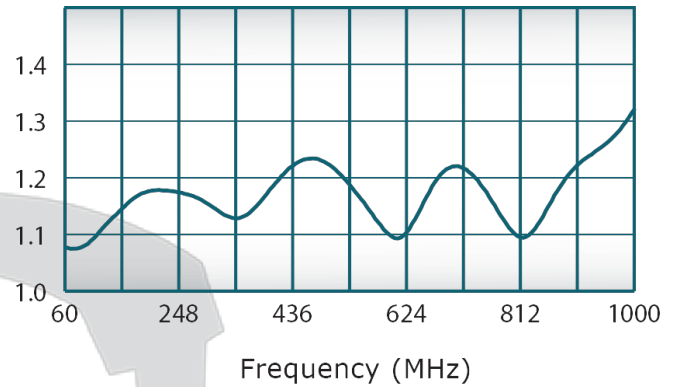
QH9304

Performance Data (Specifications subject to change without notice):

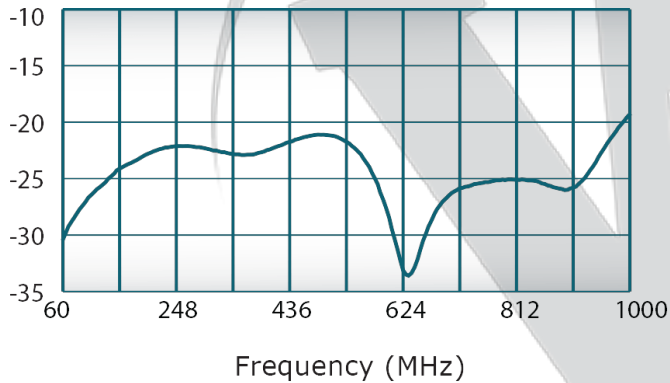
Coupling:



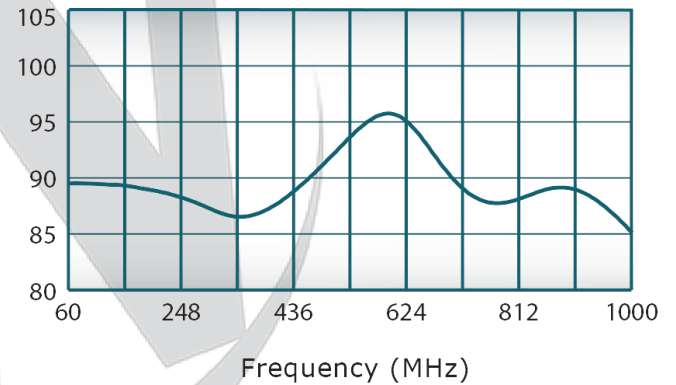
VSWR:



Isolation:

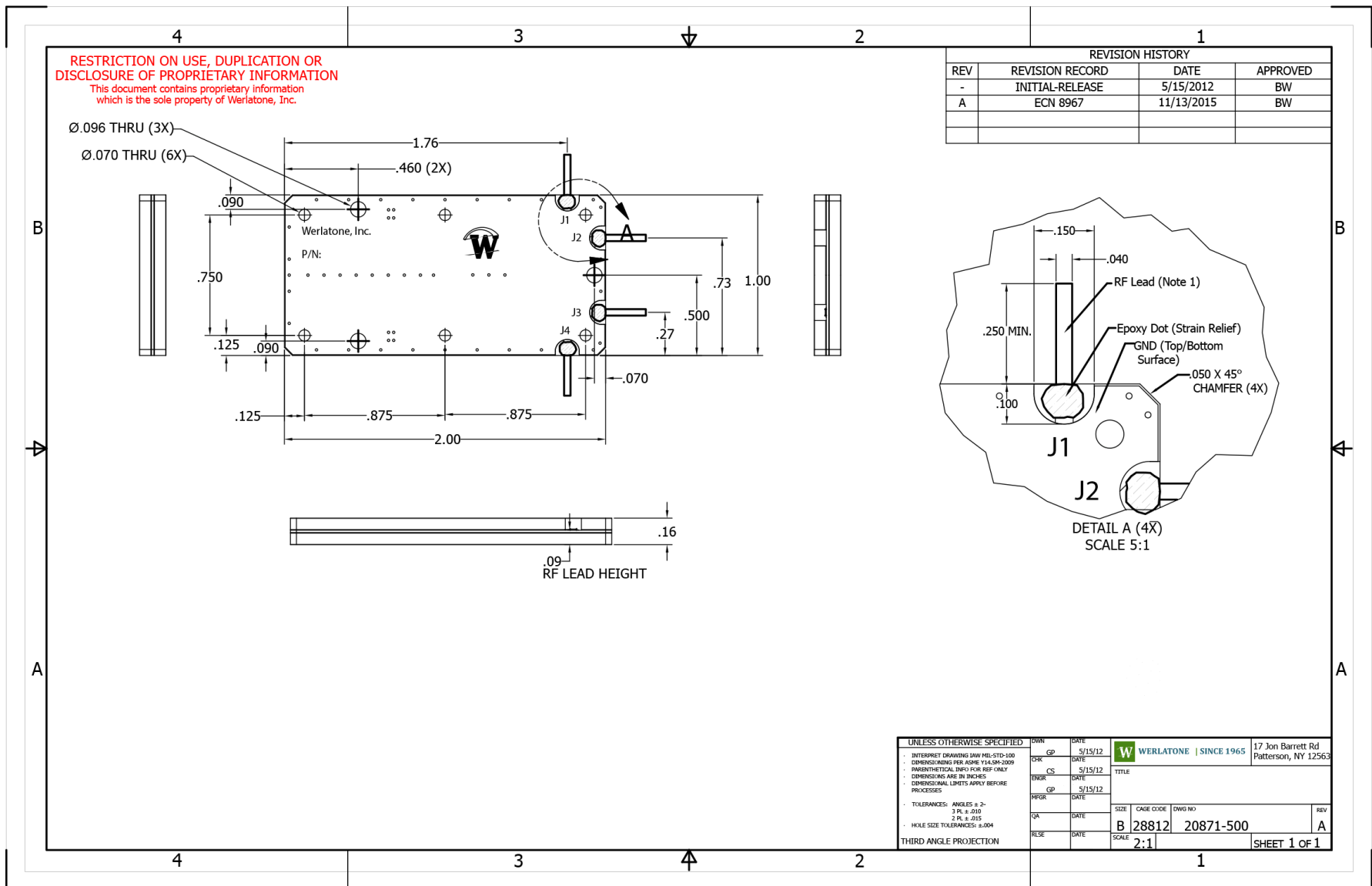


Phase Balance:



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