



PRODUCT DATA SHEET

QH8100

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: 100 - 512 MHz
Power: 250 W CW
Insertion Loss: 0.45 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: 90° ± 5° dB Max.
Amplitude Balance: ± 0.5 dB Max.
Isolation: 20 dB Min.

Mechanical Specifications:

Type: Surface Mount
Plating Options: QH8100-Pb: Electrodeposited Tin/Lead
QH8100-Sn: Immersion Tin (RoHS Compliant)
QH8100-Ag: Immersion Silver (RoHS Compliant)
QH8100-Au (ENIG)
Weight: 1.6 oz.
Size: 3.3 x 1.52 x 0.279"

Port Configurations:

J1	J2	J3	J4
Sum	-3 dB, 0°	-3 dB, -90°	Isolated
-3 dB, 0°	Sum	Isolated	-3 dB, -90°
-3 dB, -90°	Isolated	Sum	-3 dB, 0°
Isolated	-3 dB, -90°	-3 dB, 0°	Sum

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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WERLATONE

Model QH8100

90° Hybrids Surface Mount (SMT) & Drop

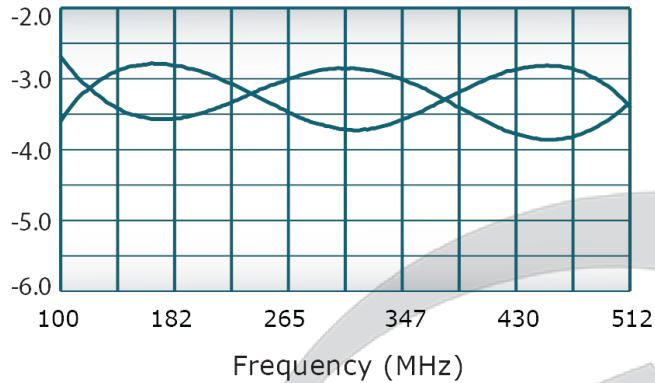


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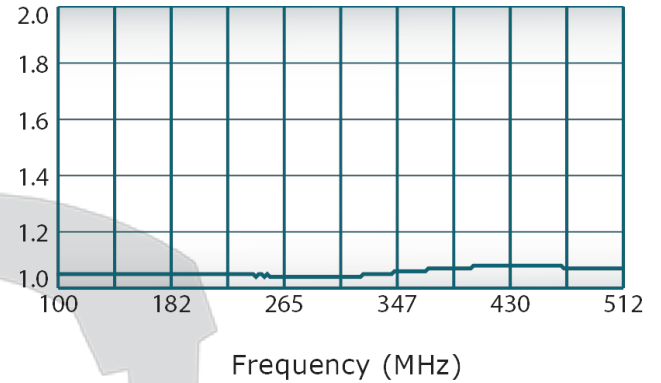
QH8100

Performance Data (Specifications subject to change without notice):

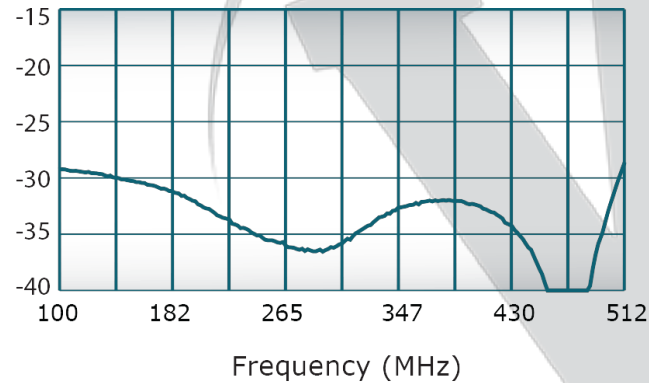
Coupling:



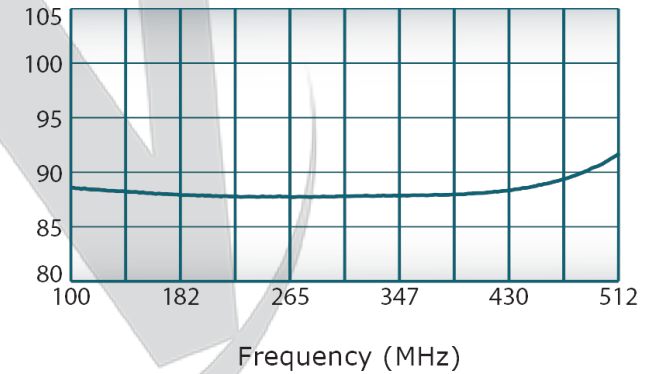
VSWR:



Isolation:

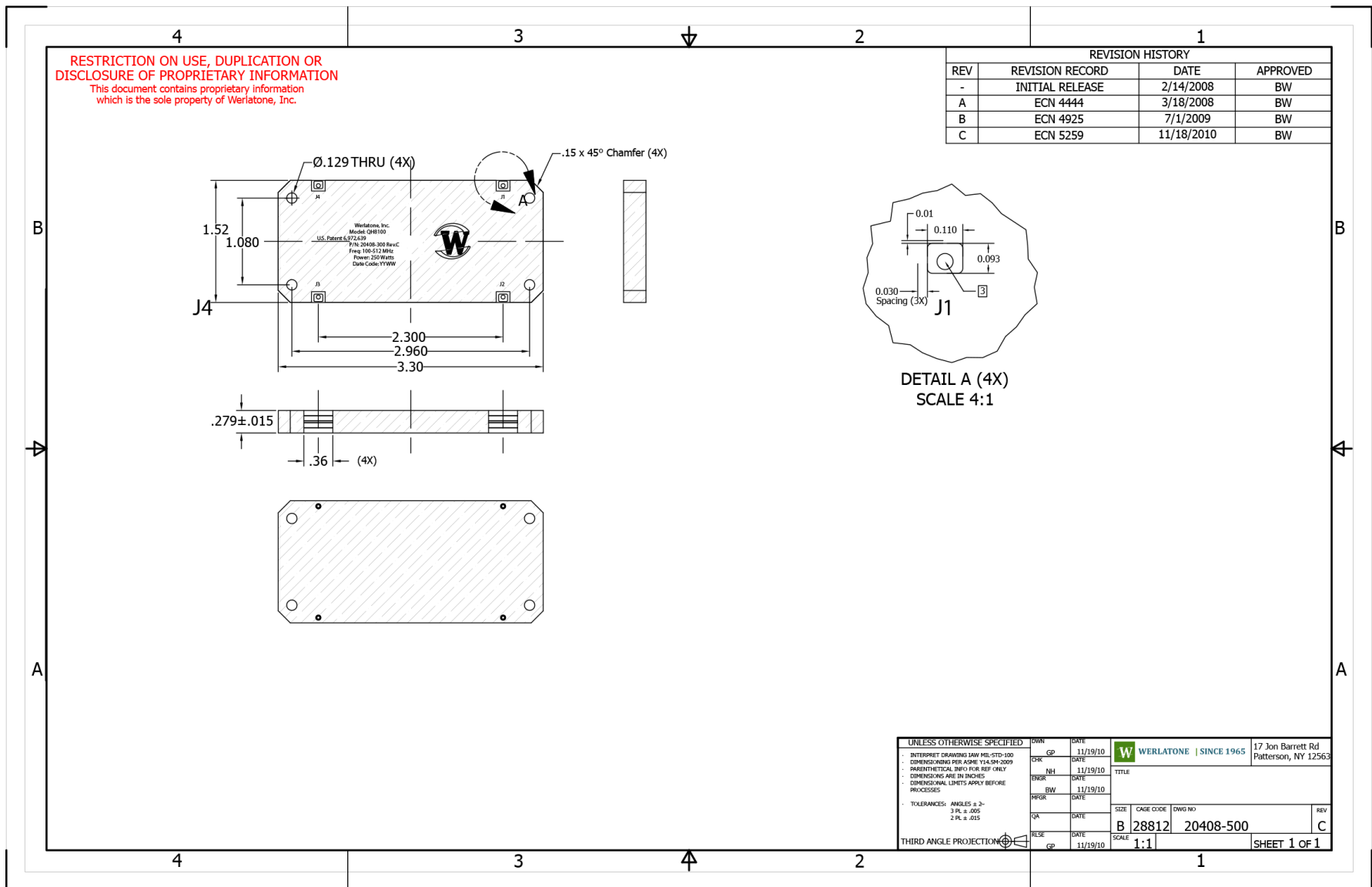


Phase Balance:



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