

PRODUCT DATA SHEET QH8859

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 Connectorized Drop-In & Surface Mount

Electrical Specifications:

Frequency: 80 - 1000 MHzPower: 250 W CWInsertion Loss: 0.65 dB Max.VSWR: 1.40:1 Max.Phase Balance: $90^{\circ} \pm 6^{\circ} \text{ Max.}$ Amplitude Balance: $\pm 1.0 \text{ dB Max.}$ Isolation: 16 dB Min.

Mechanical Specifications:

Type: Connectorized Material: Aluminum 6061-T6

Surface Finish: Chem. Film Per MIL-DTL-5541F Type I Class

3 (Yellow Iridite) RoHS Compliant Available

Operating Temperature: -55°C to $+75^{\circ}\text{C}$ Storage Temperature: -60°C to $+85^{\circ}\text{C}$

Weight: 14.2 oz.

Size: 3.5 x 3.2 x 1.06"

Connector Configurations:

Model	Sum Port (J1)	0°, -90° (J2,J3)	ISO Port (J4)
QH8859-10	N Female	N Female	N Female
QH8859-12	N Female	N Female	SMA
QH8859-102	SMA	SMA	SMA
QH8859-113	BNC	BNC	BNC

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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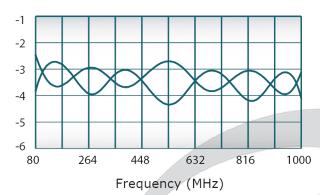




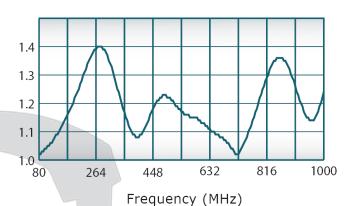
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Performance Data (Specifications subject to change without notice):

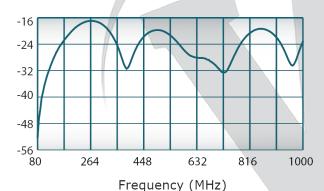
Coupling:



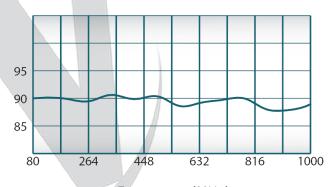
VSWR:

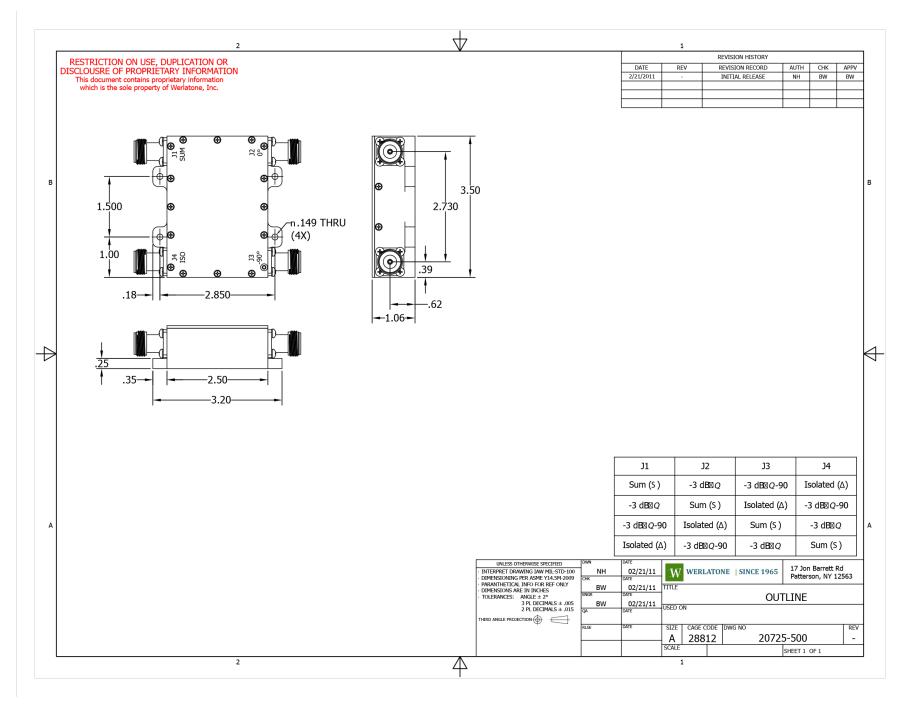


Isolation:



Phase Balance:





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