



PRODUCT DATA SHEET QH7856

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: 500 - 2000 MHzPower: 200 W CWInsertion Loss: 0.55 dB Max.VSWR: 1.35:1 Max.Phase Balance: $90^{\circ} \pm 5^{\circ} \text{ Max.}$ Amplitude Balance: $\pm 0.5 \text{ dB Max.}$ Isolation: 18 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°C Storage Temperature: -60°C to +85°C

Weight: 4 oz.

Size: 2.1 x 1.49 x 0.75"

Port Configurations:

J1 **J4** J2 13 Input -3 dB. 0° -3 dB. -90° Isolated -3 dB, 0° -3 dB, -90° Input Isolated -3 dB. -90° Isolated -3 dB. 0° Input 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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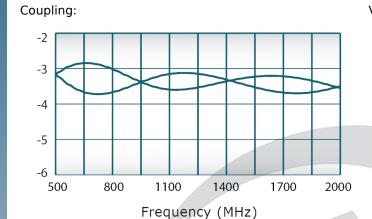
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

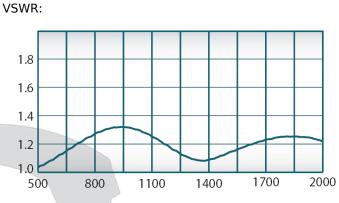




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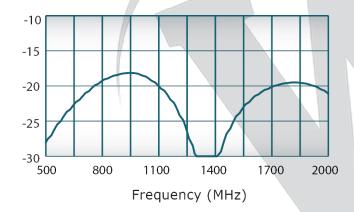
Performance Data (Specifications subject to change without notice):



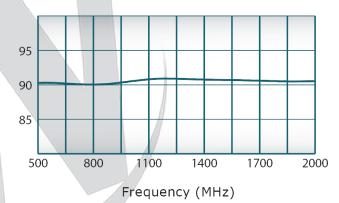


Frequency (MHz)

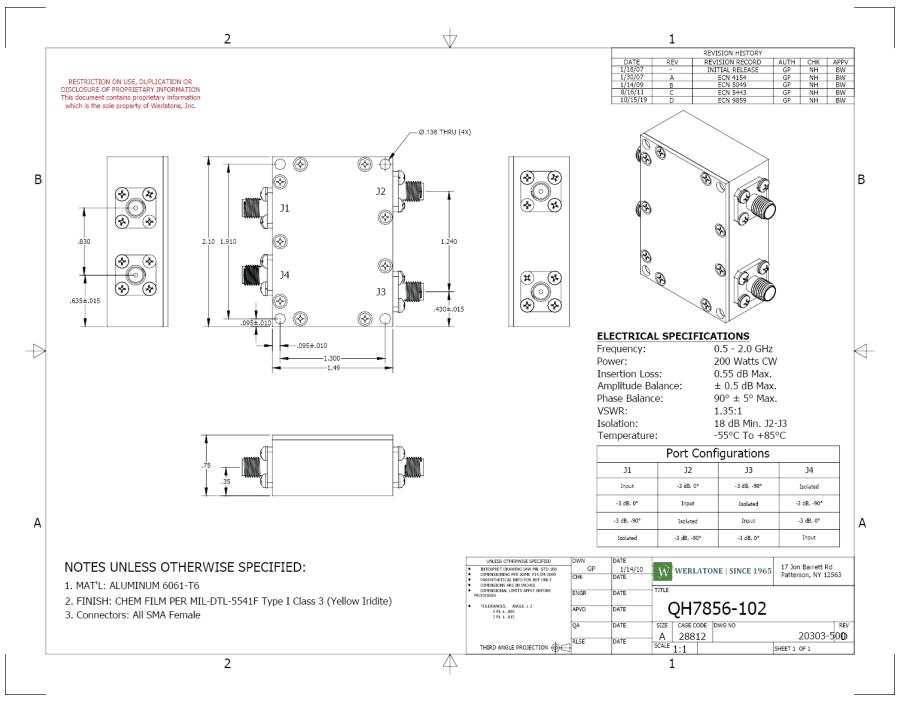
Isolation:



Phase Balance:



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