



PRODUCT DATA SHEET QH9141

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: 150 - 2000 MHz

Power: 150 W CW

Insertion Loss: 0.85 dB Max.

VSWR: 1.40:1 Max.

Phase Balance: 90° ± 5° Max.

Amplitude Balance: \pm 0.75 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 $+75^{\circ}\text{C}$ Storage Temperature: -60°C to $+85^{\circ}\text{C}$

Weight: 8 oz.

Size: 2.0 x 2.0 x 1.06"

Connector Configurations:

Model	Sum Port (J1)	0°, 90° (J2,J3)	Ext. Load Port
QH9141-10	N Female	N Female	N Female
QH9141-12	N Female	SMA	SMA
QH9141-102	SMA	SMA	SMA
QH9141-300	TNC	TNC	TNC

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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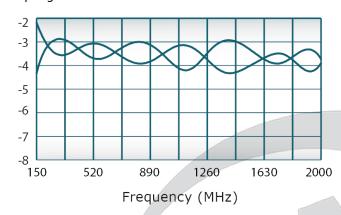




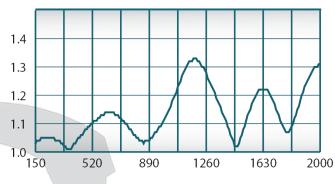
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Performance Data (Specifications subject to change without notice):

Coupling:

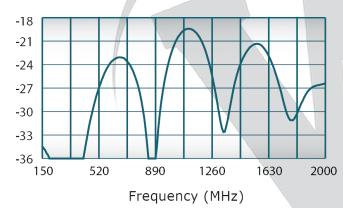


VSWR:

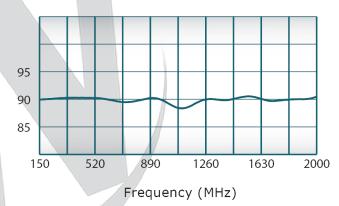


Frequency (MHz)

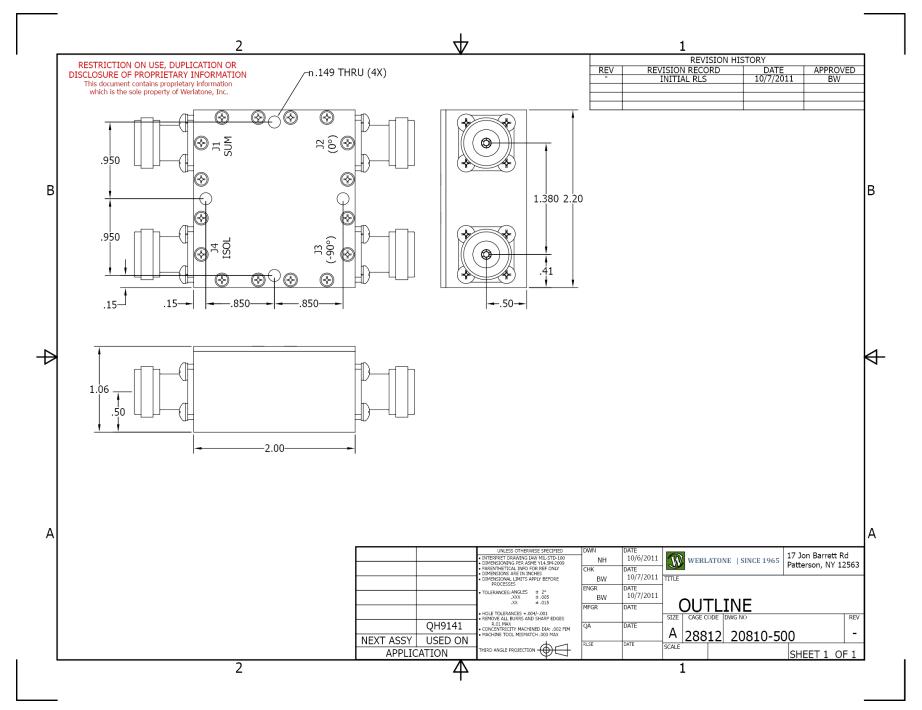
Isolation:



Phase Balance:



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