



PRODUCT DATA SHEET

QH9044

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: 100 - 512 MHz
 Power: 400 W CW
 Insertion Loss: 0.4 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: $90^\circ \pm 5^\circ$ Max.
 Amplitude Balance: ± 0.6 dB Max.
 Isolation: 20 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: 0.75 lbs.
 Size: 4.0 x 1.92 x 1.1"

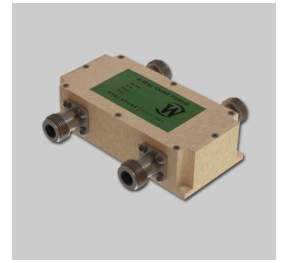
Connector Configurations:

Model	Sum Port (J1)	0°, 90° (J2,J3)	Ext. Load Port
QH9044-10	N Female	N Female	N Female
QH9044-12	N Female	SMA	SMA
QH9044-102	SMA	SMA	SMA
QH9044-300	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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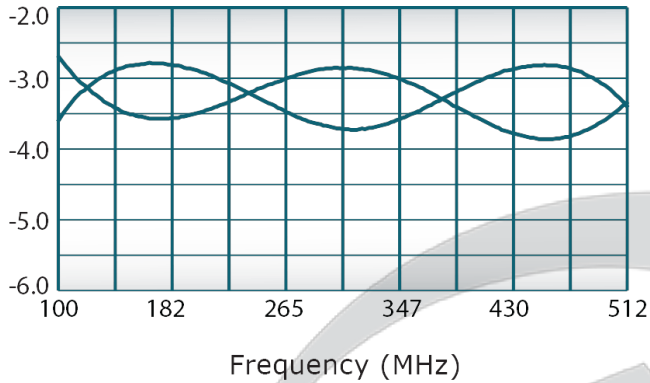


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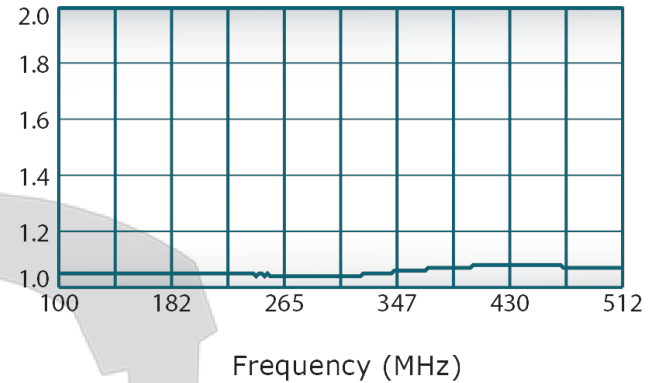
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Performance Data (Specifications subject to change without notice):

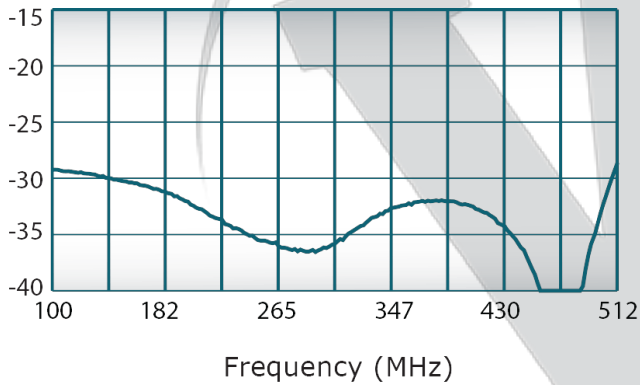
Coupling:



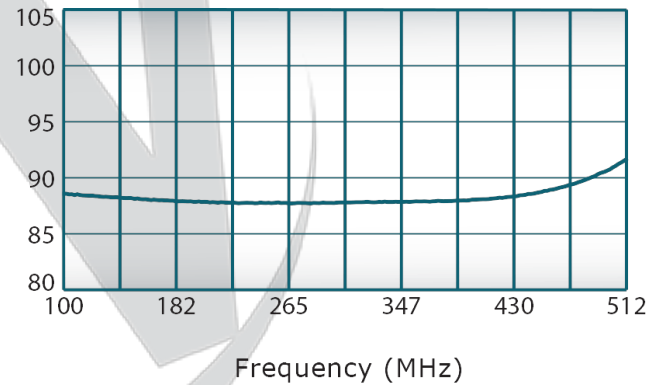
VSWR:



Isolation:



Phase Balance:



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