



PRODUCT DATA SHEET

QH9281W

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 MHz
 Power: 250 W CW
 Insertion Loss: 0.7 dB Max.
 VSWR: 1.45:1 Max.
 Phase Balance: 90° ± 5° Max.
 Amplitude Balance: ± 1.45 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 Black Epoxy Paint/White Epoxy Lettering
 Operating Temperature: -55°C to +75°C
 Storage Temperature: -60°C to +85°C
 Size: 4.55 x 3.18 x 1.0"

Connector Configurations:

Model	Sum Port (J1)	Inputs (J2,J3)
QH9281W-10	N Female	N Female

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.

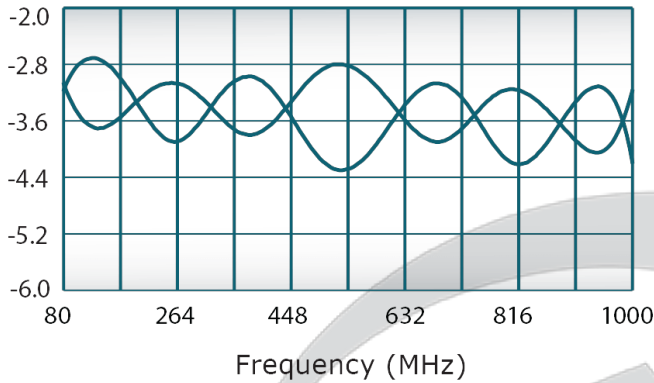
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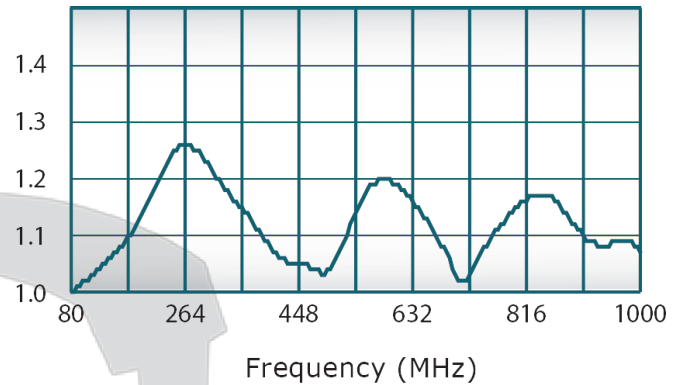
Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

Performance Data (Specifications subject to change without notice):

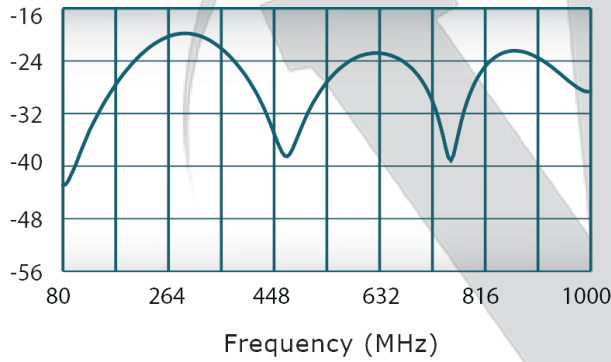
Coupling:



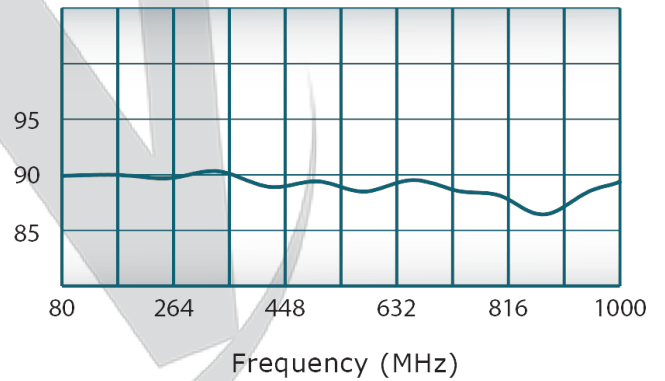
VSWR:



Isolation:

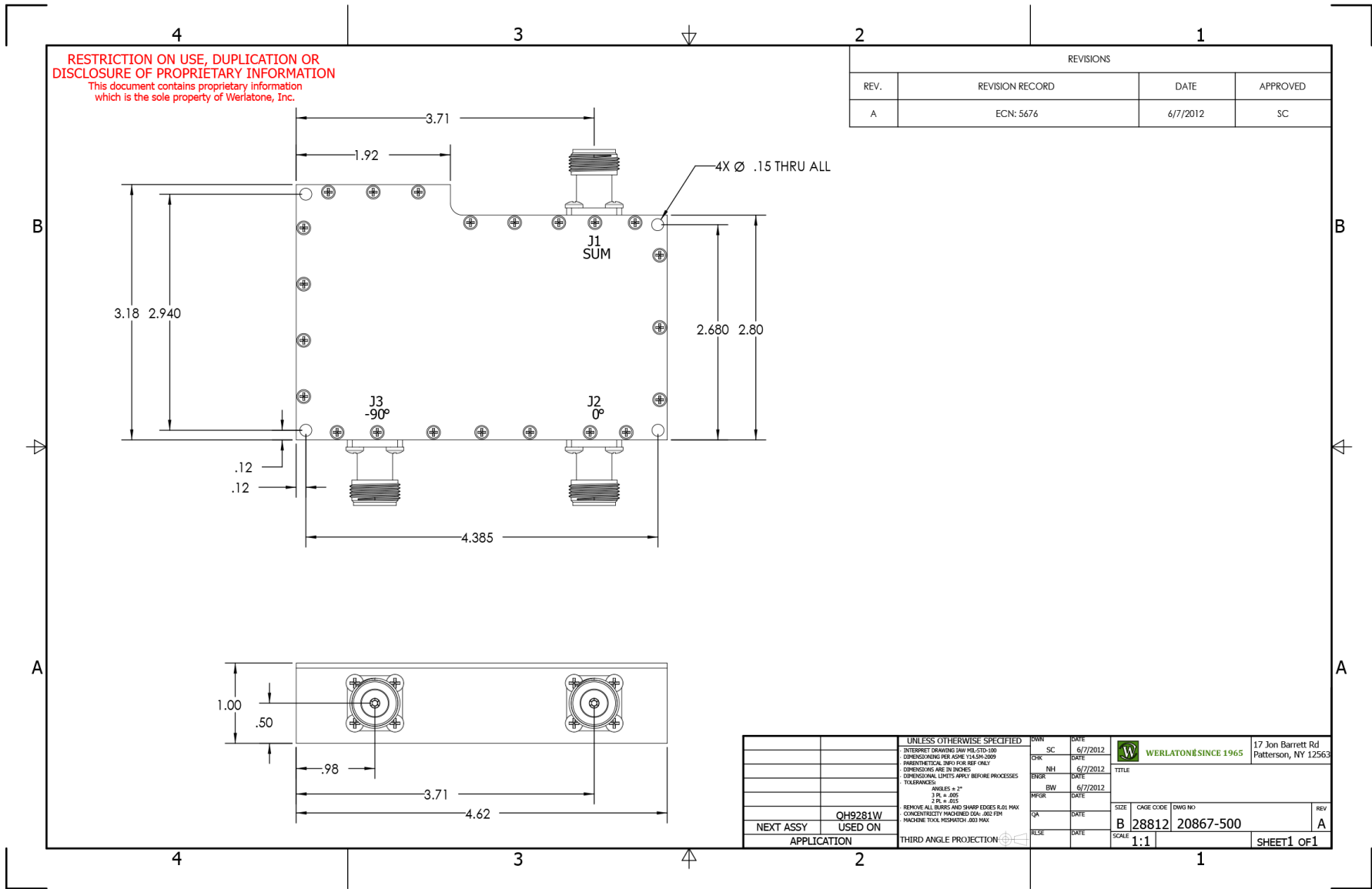


Phase Balance:



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