



## PRODUCT DATA SHEET

QH7816

### 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: 200 W CW  
 Insertion Loss: 0.4 dB Max.  
 VSWR: 1.30:1 Max.  
 Phase Balance: 90° ± 5° Max.  
 Amplitude Balance: ± 0.55 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°C  
 Storage Temperature: -60°C to +85°C  
 Weight: 0.5 lbs.  
 Size: 3.7 x 1.92 x 0.85"

### Port Configurations:

J1	J2	J3	J4
Input	-3 dB. 0°	-3 dB. -90°	Isolated
-3 dB. 0°	Input	Isolated	-3 dB. -90°
-3 dB. -90°	Isolated	Input	-3 dB. 0°
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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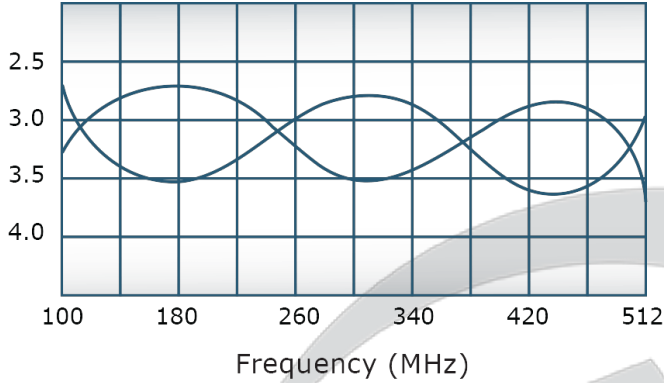
Werlatone, Inc.

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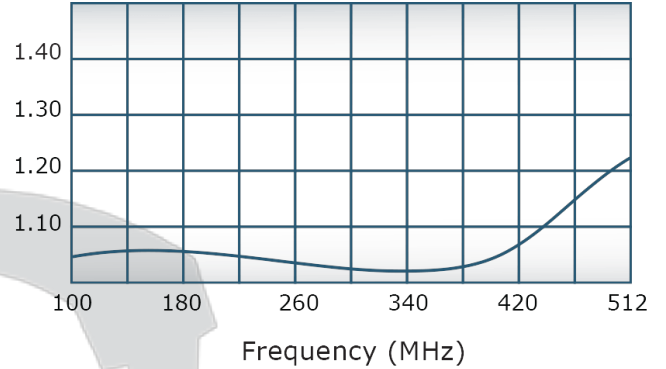


## Performance Data (Specifications subject to change without notice):

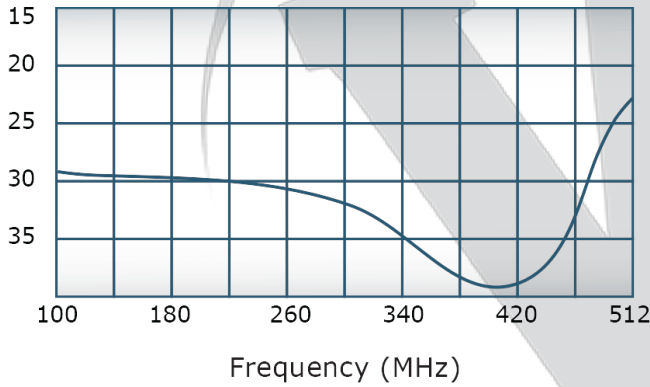
Coupling:



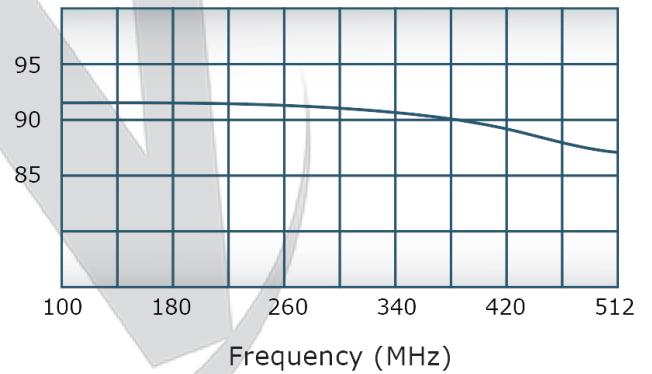
VSWR:



Isolation:



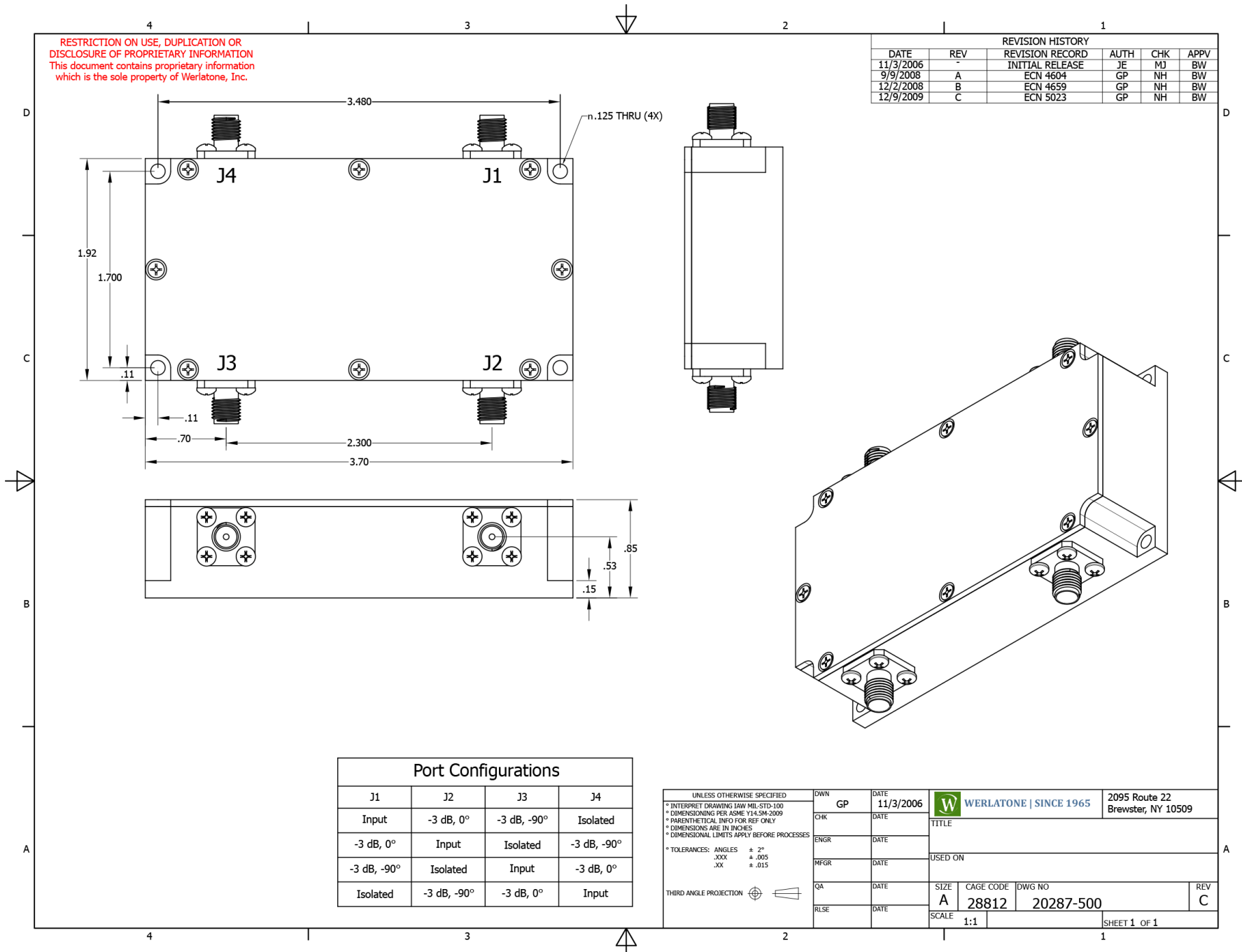
Phase Balance:



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