

## PRODUCT DATA SHEET

QH8540

### 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: 20-520 MHz  
 Power: 250 W CW  
 Insertion Loss: 0.6 dB Max.  
 VSWR: 1.30:1 Max.  
 Phase Balance:  $90^\circ \pm 10^\circ$  Max.  
 Amplitude Balance:  $\pm 0.3$  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:  $-55^\circ\text{C}$  to  $+75^\circ\text{C}$   
 Storage Temperature:  $-60^\circ\text{C}$  to  $+85^\circ\text{C}$   
 Weight: 8 oz.  
 Size: 2.7 x 2.7 x 0.9"

### Connector Configurations:

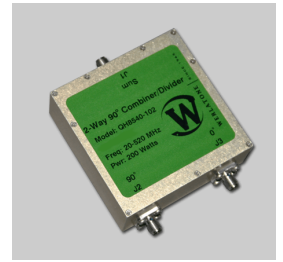
Model	Sum Port (J1)	90°, 0° (J2,J3)	Ext. Load Port
QH6031-102	SMA Female	SMA Female	Non Applicable

**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.



# WERLATONE

Model QH8540

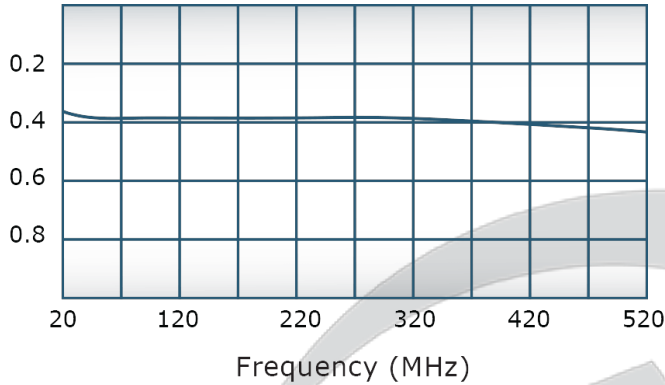


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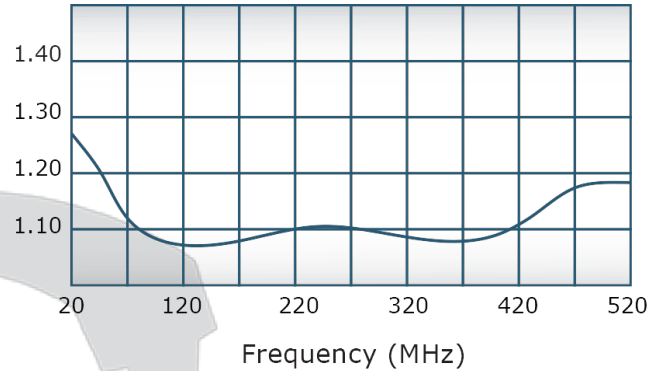
QH8540

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

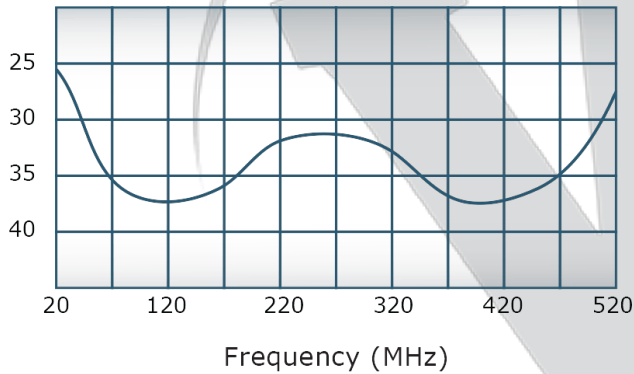
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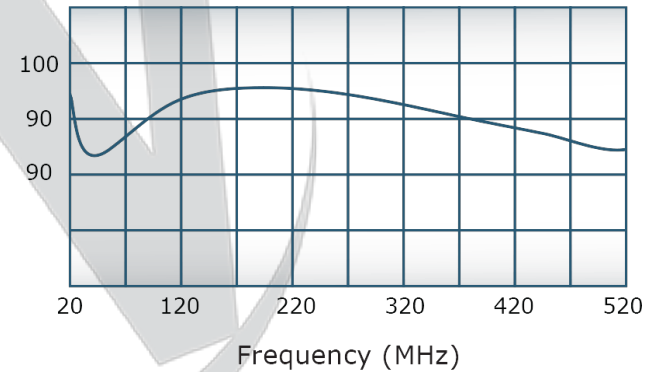
VSWR:



Isolation:

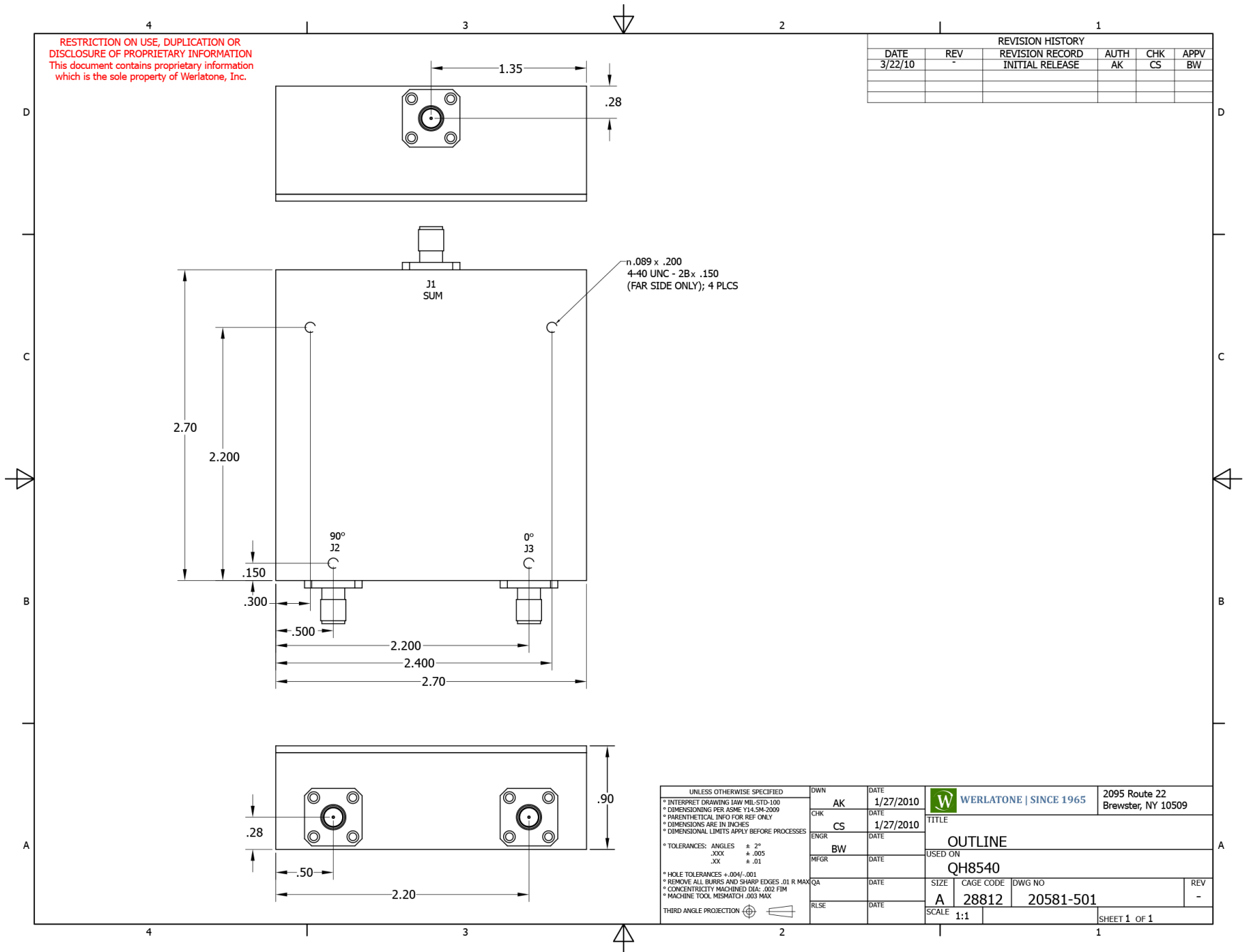


Phase Balance:



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