



## PRODUCT DATA SHEET

QH6031

### 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: 20-500 MHz  
Power: 200 W CW  
Insertion Loss: 0.6 dB Max.  
VSWR: 1.40:1 Max.  
Phase Balance: 90° ± 10° Max.  
Amplitude Balance: ± 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°C to +75°C  
Storage Temperature: -60°C to +85°C  
Weight: 1 lb. 10 oz.  
Size: 5.0 x 3.5 x 1.6"

### Connector Configurations:

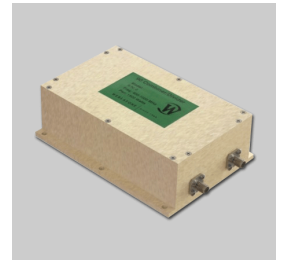
Model	Sum Port (J1)	Inputs/Outputs (J2,J3)
QH6031-10	N Female	N Female
QH6031-12	N Female	SMA Female
QH6031-102	SMA Female	SMA Female

**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.



# WERLATONE

Model QH6031  
90° Hybrids Connectorized

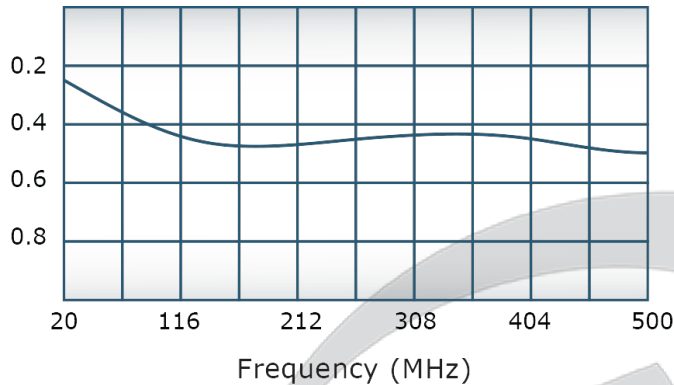


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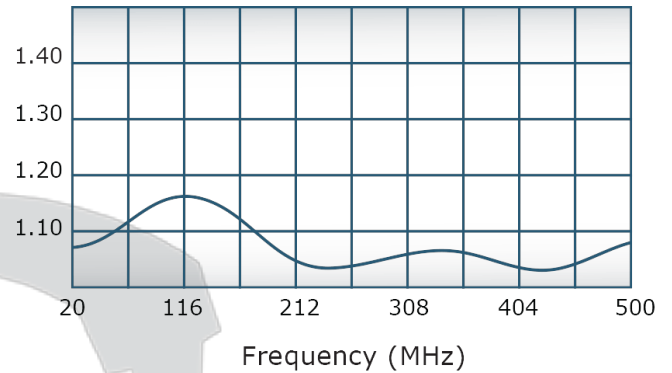
QH6031

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

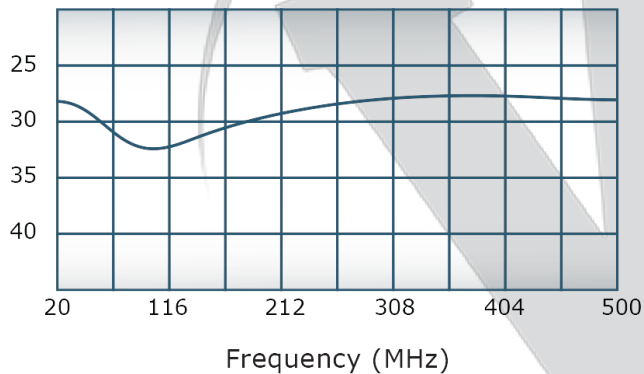
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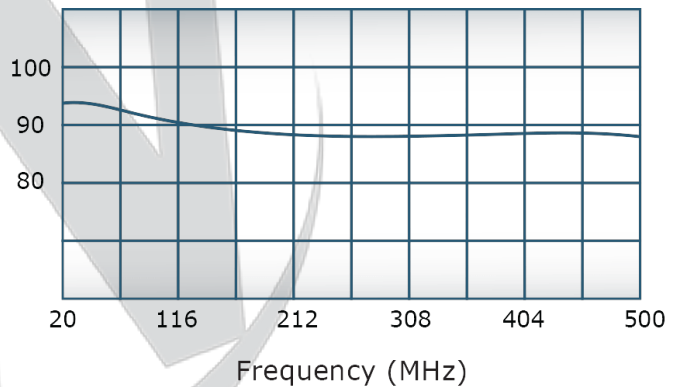
VSWR:



Isolation:

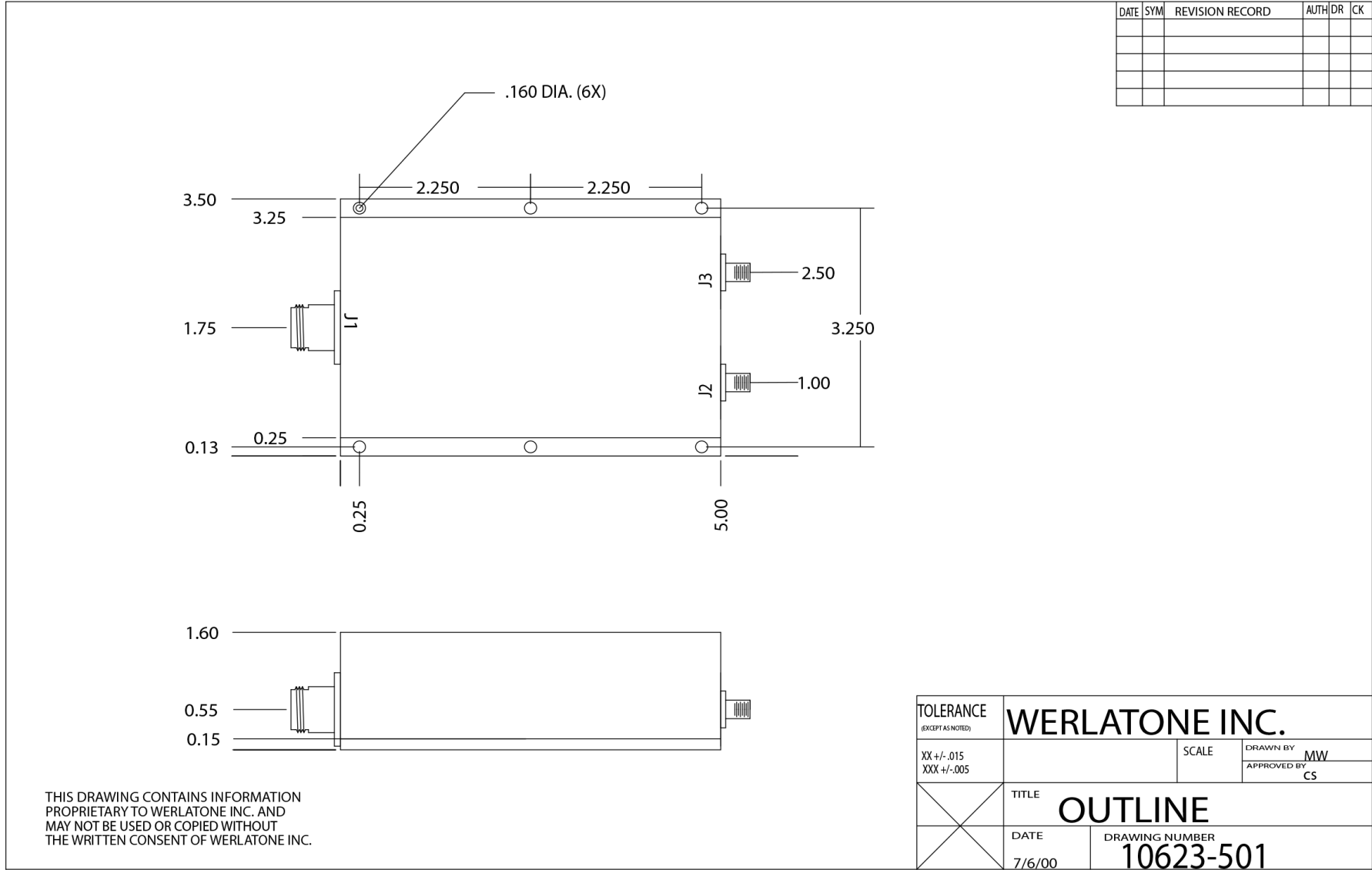


Phase Balance:



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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



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