



## PRODUCT DATA SHEET

QH6308

### 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 - 500 MHz  
Power: 25 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: 0.5 lbs.  
Size: 4.0 x 2.0 x 1.5"

### Connector Configurations:

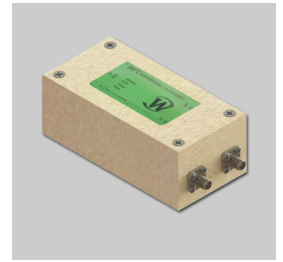
Model	Sum Port (J1)	Inputs (J2,J3)
QH6308-10	N Female	N Female
QH6308-12	N Female	SMA
QH6308-13	N Female	BNC
QH6308-102	SMA Female	SMA

**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 QH6308  
90° Hybrids Connectorized

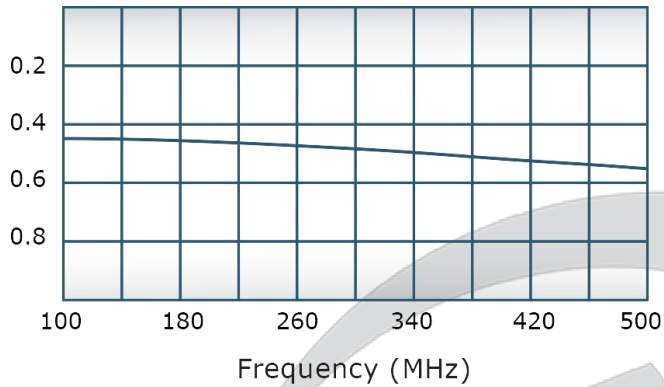


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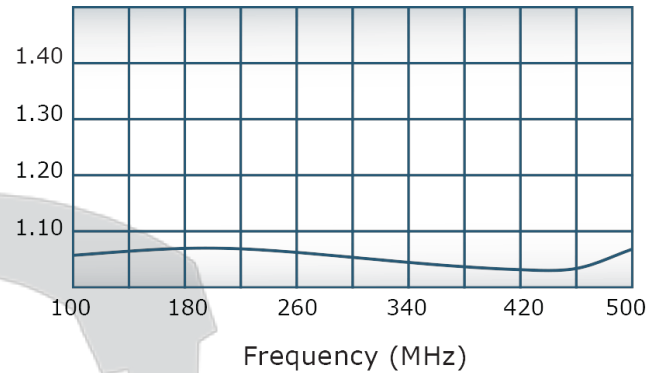
QH6308

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

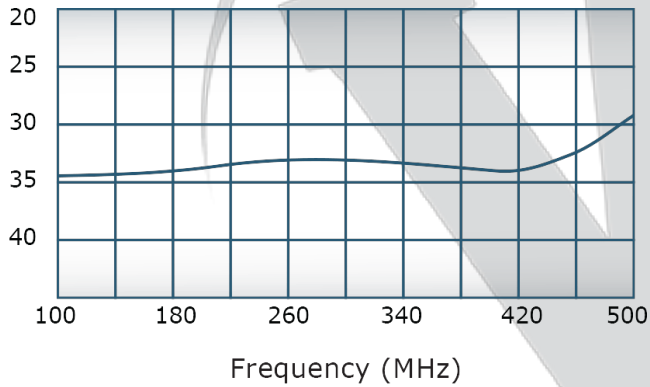
Insertion Loss:



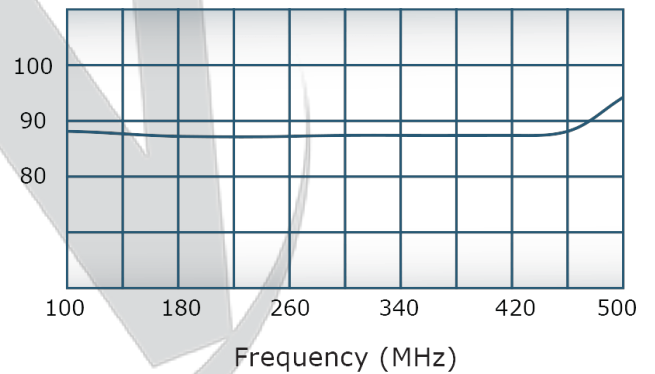
VSWR:



Isolation:



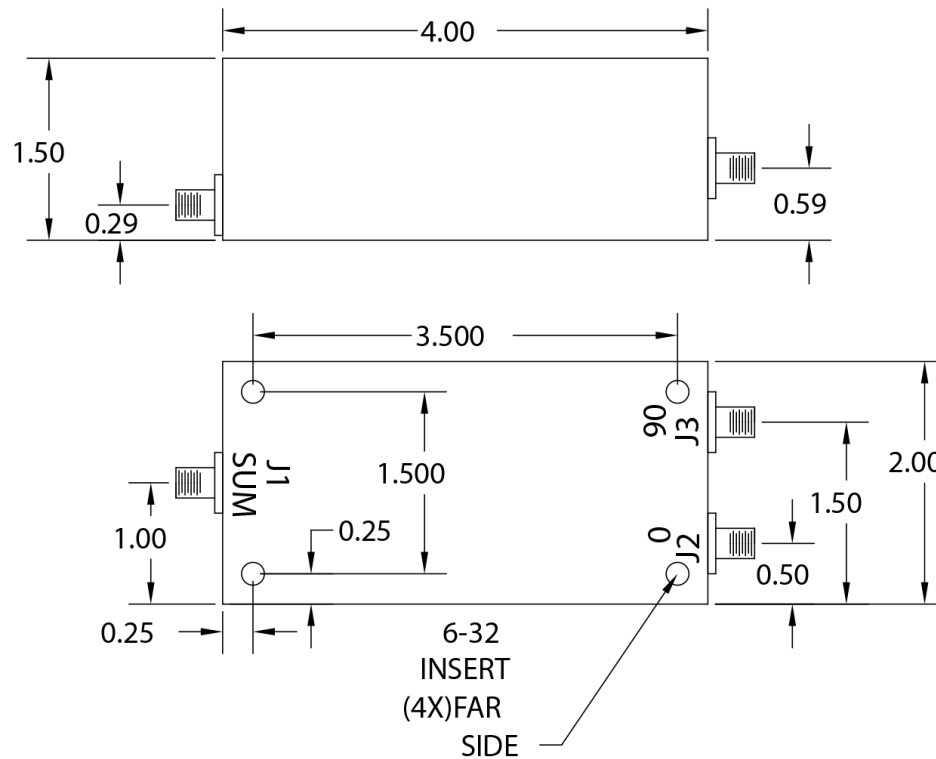
Phase Balance:




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DATE	SYM	REVISION RECORD	AUTH	DR	CK



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