



**PRODUCT DATA SHEET**

**QH6030**

**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: 10 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:**

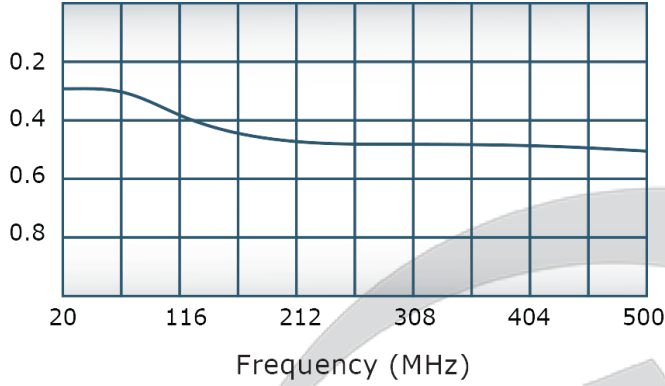
Model	Sum Port (J1)	0°, 90° Ports (J2,J3)
QH6030-10	N Female	N Female
QH6030-12	N Female	SMA Female
QH6030-13	N Female	BNC Female
QH6030-102	SMA	SMA

**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.

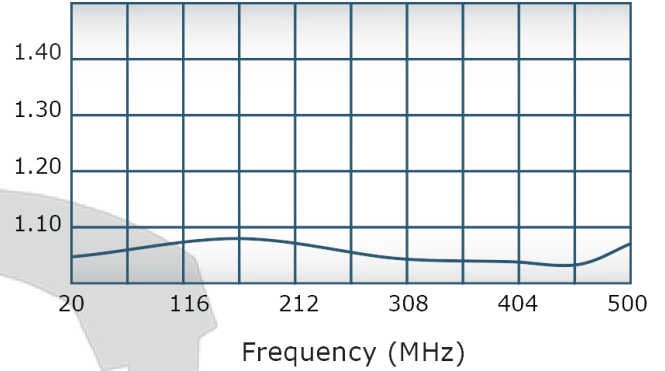


## Performance Data (Specifications subject to change without notice):

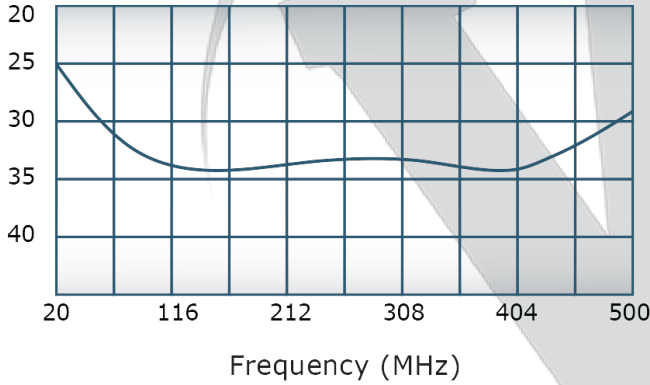
Insertion Loss:



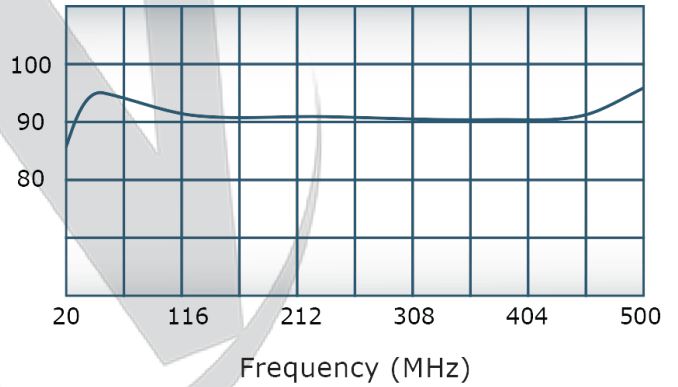
VSWR:



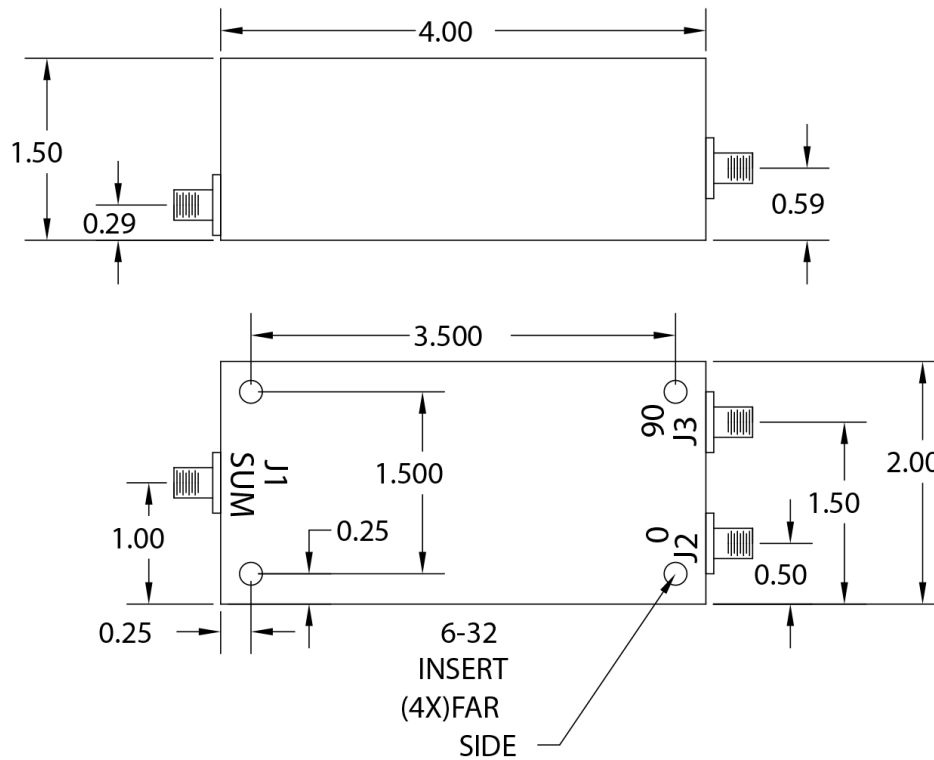
Isolation:



Phase Balance:



DATE	SYM	REVISION RECORD	AUTH	DR	CK



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X	TITLE <b>OUTLINE</b>		
	DATE 4/8/04	DRAWING NUMBER	10624-500

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