



PRODUCT DATA SHEET

QH8905

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: 160 - 170 MHz
 Power: 300 W CW
 Insertion Loss: 0.4 dB Max.
 VSWR: 1.25:1 Max.
 Phase Balance: $90^\circ \pm 10^\circ$ Max.
 Amplitude Balance: ± 0.2 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
 Size: 6.0 x 5.0 x 2.25"

Connector Configurations:

Model	Sum Port (J5)	Inputs (J1 - J4)
QH8905-10	N Female	N Female
QH8905-12	N 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 QH8905

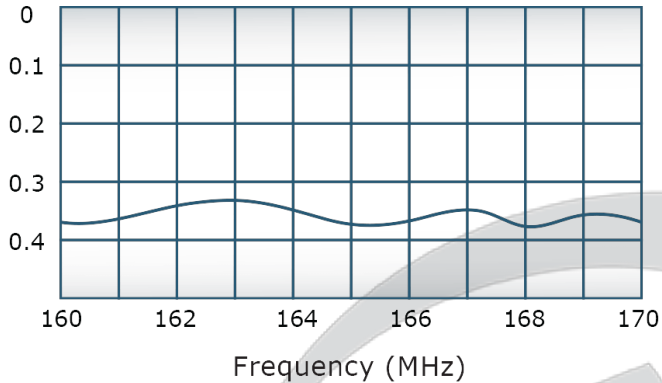


PRODUCT DATA SHEET

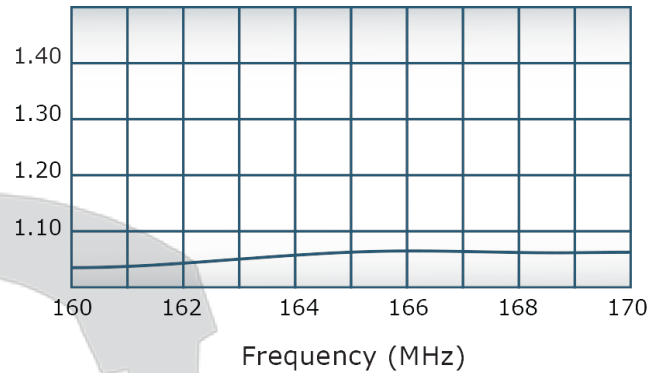
QH8905

Performance Data (Specifications subject to change without notice):

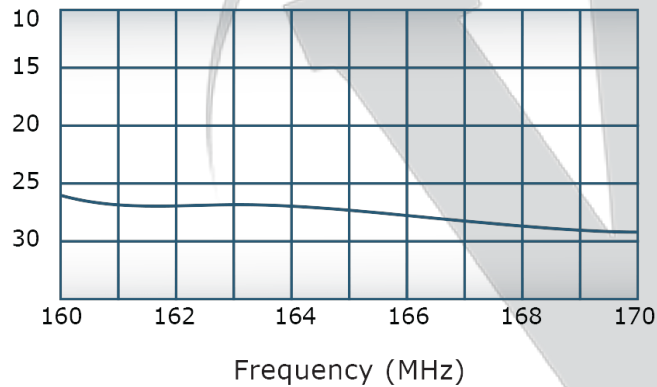
Insertion Loss:



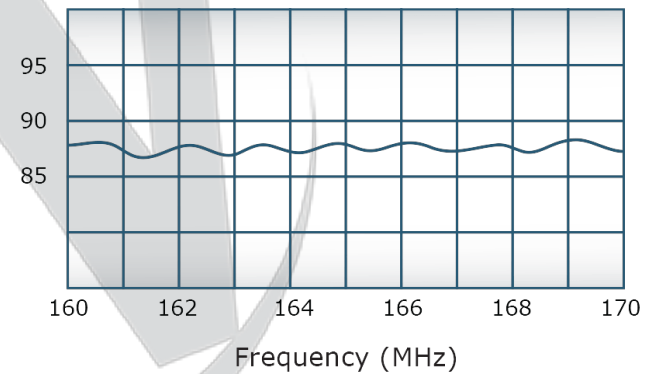
VSWR:



Isolation:



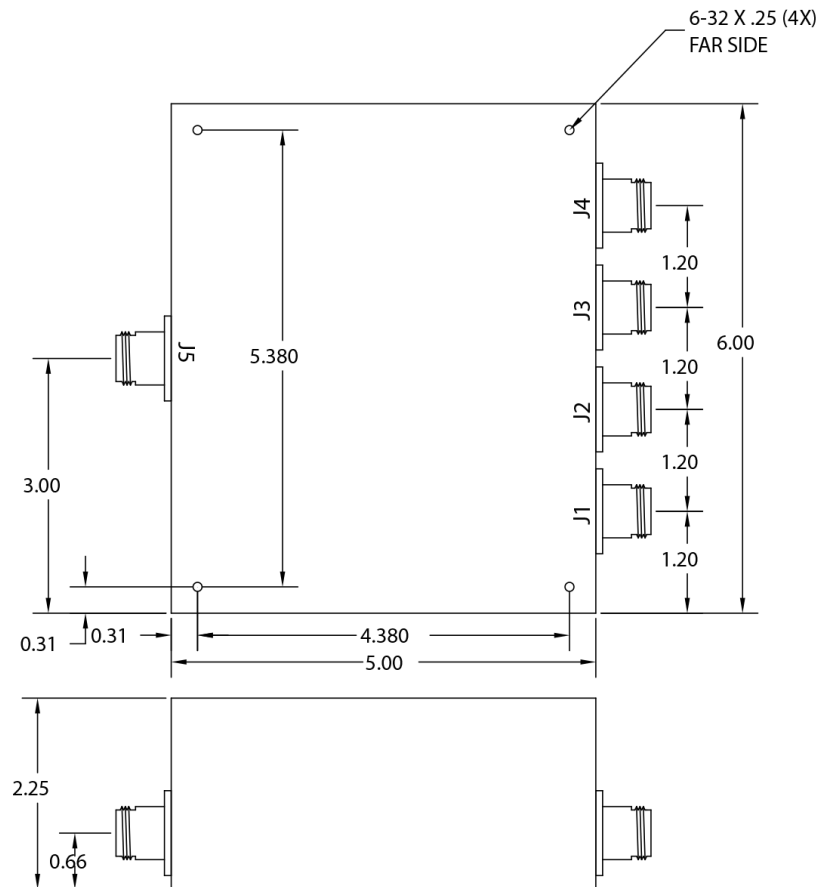
Phase Balance:



Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.

Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com

DATE	SYM	REVISION RECORD	AUTH	DR	CK



THIS DRAWING CONTAINS INFORMATION
 PROPRIETARY TO WERLATONE INC. AND
 MAY NOT BE USED OR COPIED WITHOUT
 THE WRITTEN CONSENT OF WERLATONE INC.

TOLERANCE	WERLATONE INC.			
XX +/- .015 XXX +/- .005			SCALE	DRAWN BY: CS
	TITLE OUTLINE			
	DATE 3/26/03	DRAWING NUMBER 10905-500		

Restriction on use, duplication, or disclosure of proprietary information. This document contains proprietary information which is the sole property of Werlatone, Inc.
 Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com