



## PRODUCT DATA SHEET

QH9386

### 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:	25 W CW
Insertion Loss:	0.6 dB Max.
VSWR:	1.40:1 Max.
Phase Balance:	90° $\pm$ 10° Max.
Amplitude Balance:	$\pm$ 1.0 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:	2.7 x 2.7 x 1.25"

### Connector Configurations:

Model	Sum Port (J1)	Inputs/Outputs (J2,J3)
QH9386-10	N Female	N Female
QH9386-12	N Female	SMA Female
QH9386-102	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 QH9386

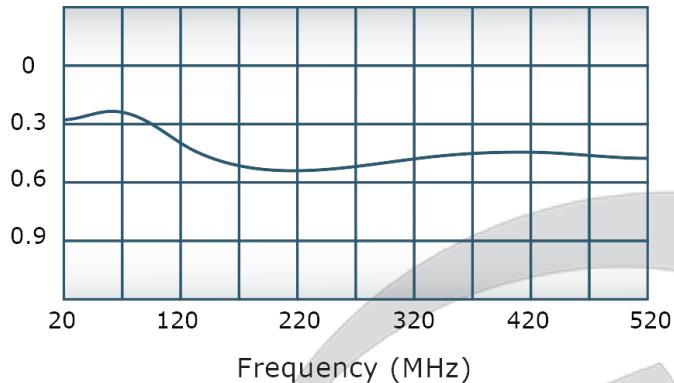
90° Hybrids Connectorized

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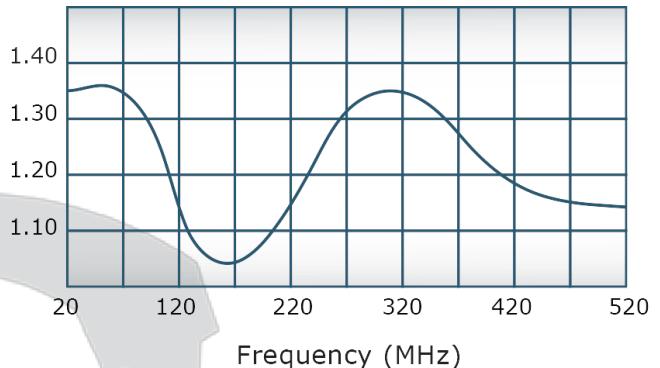
QH9386

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

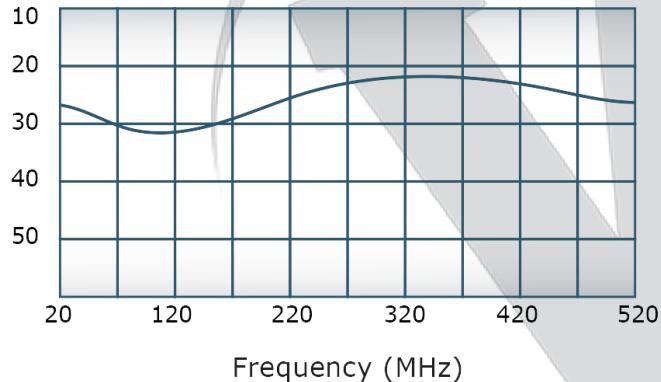
Insertion Loss:



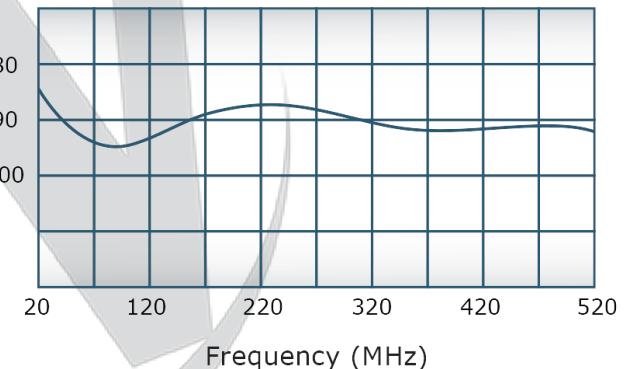
VSWR:



Isolation:



Phase Balance:



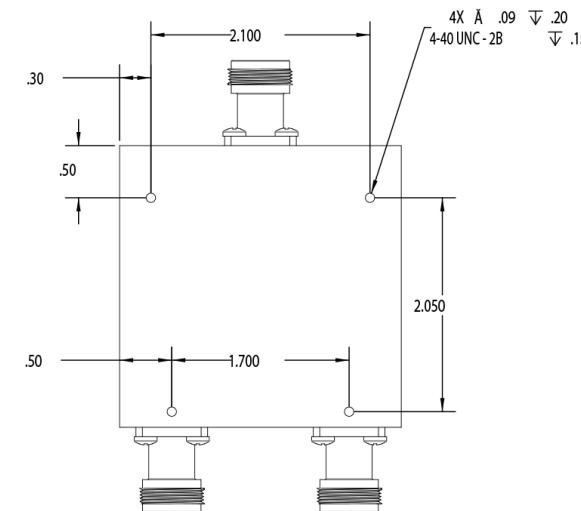
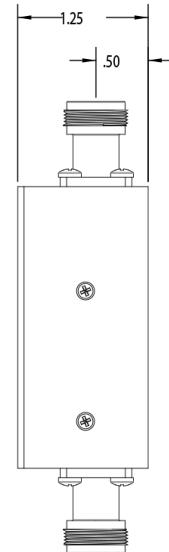
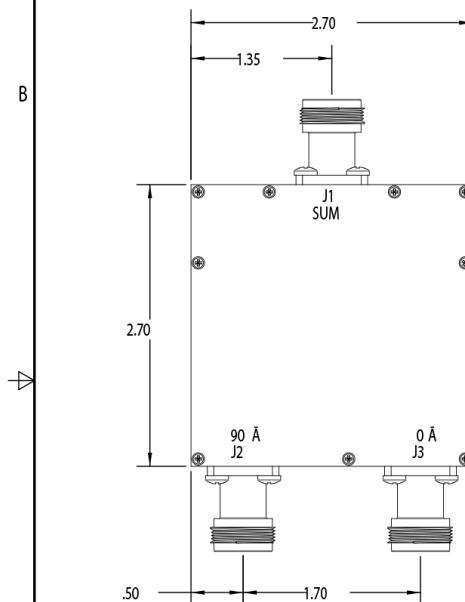
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REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	5/7/2012	



UNLESS OTHERWISE SPECIFIED		DRAWN BY	DATE	WERLATONE   SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
INTERFERENCING PARTS MUST BE REMOVED OR CHANGED AS MAY BE NECESSARY	CHK	DATE	5/7/2012		
ALL DIMENSIONS ARE IN INCHES	SPGR	DATE			
UNLESS OTHERWISE SPECIFIED	APRQ	DATE			
ALL DIMENSIONS ARE IN INCHES	DA	DATE			
REMOVED, LIFTED AND SWUNG 45° & 90° MAX	RELE	DATE			
STRAIGHTNESS (MAXIMUM DEFLECTION)					
WAVE (MAXIMUM DEFLECTION)					
SHOCK (MAXIMUM DEFLECTION)					
MACHINING TO SIZE (MAXIMUM DEFLECTION)					
NOTES					
NEXT ASSY	USED ON	APPLICATION	THIRD ANGLE PROJECTION		

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