WERLATONE

Model QH6312
90° Hybrids Connectorized

PRODUCT DATA SHEET	QH6312

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:	10 - 150 MHz
Power:	10 W CW
Insertion Loss:	0.6 dB Max.
VSWR:	1.30:1 Max.
Phase Balance:	90° $\pm$ 5° Max.
Amplitude Balance:	$\pm$ 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:	3.0 x 3.0 x 1.5''

Connector Configurations:

Model	Sum Port (J1)	Inputs (J2,J3)
QH6312-10	N Female	N Female
QH6312-12	N Female	SMA
QH6312-13	N Female	BNC
QH6312-102	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.

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Performance Data (Specifications subject to change without notice):

Insertion Loss:

VSWR:

Isolation:
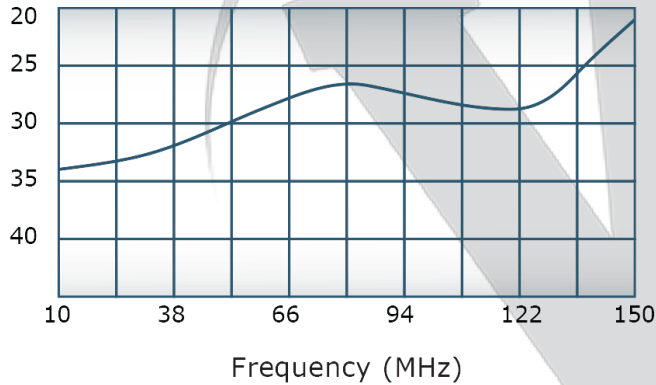
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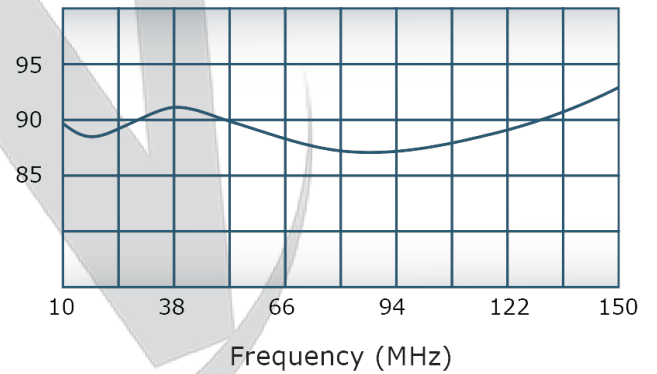
Werlatone, Inc.   17 Jon Barrett Road Patterson, NY 12563   T:(845)278-2220   F:(845)278-3440   sales@werlatone.com   www.werlatone.com
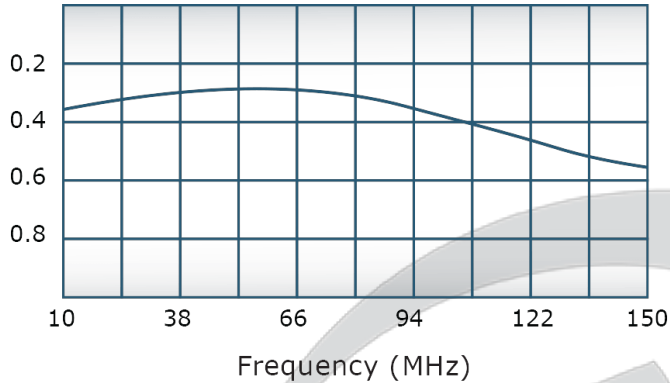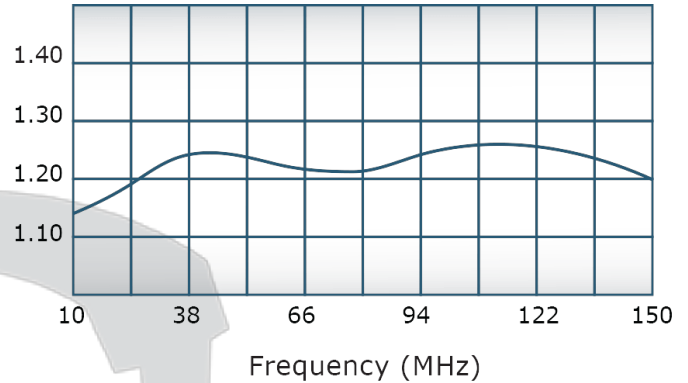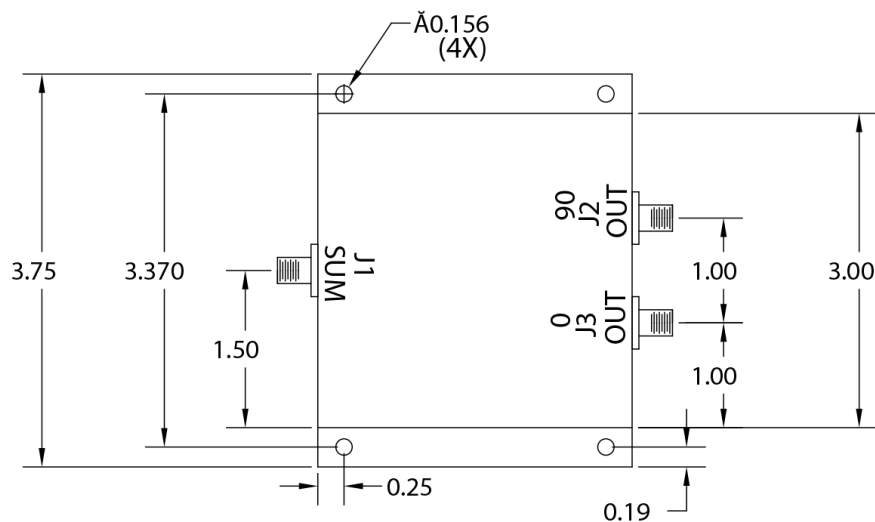
Ã0.156
(4X)

3.75 3.370

90 J2 OUT

J1 SUM

0 J3 OUT

1.00

3.00

1.50

1.00

0.25

0.19

3.00

0.75

1.50
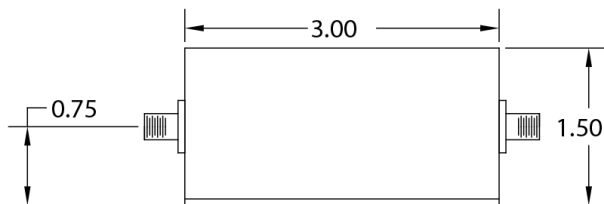
QH 3350 QUADRATURE HYBRID
6-130 MHZ 10 W AVG.

TOLERANCE	WERLATONE INC.		
XX +/- .015 XXX +/- .005		SCALE	DRAWN BY: RH
			APPVD BY:
TITLE	OUTLINE		
DATE 4/23/01	DRAWING NUMBER		10547-500