

PRODUCT DATA SHEET
QH7902
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: 500 - 2500 MHz
Power: 200 W CW
Insertion Loss: 0.7 dB Max.
VSWR: 1.35:1 Max.
Phase Balance: $90^\circ \pm 5^\circ$ Max.
Amplitude Balance: ± 0.5 dB Max.
Isolation: 18 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 $+75^\circ\text{C}$
Storage Temperature: -60°C to $+85^\circ\text{C}$
Weight: 0.25 lb.
Size: 2.1 x 1.49 x 0.75"

Connector Configurations:

Model	Sum Port (J1)	0°,90° (J2,J3)	Iso. Port (J4)
QH7902-102	SMA	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.

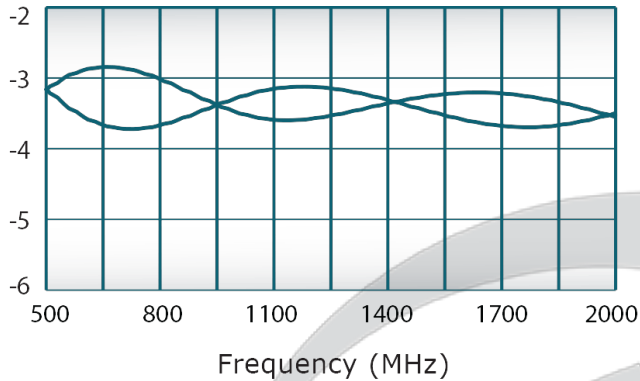


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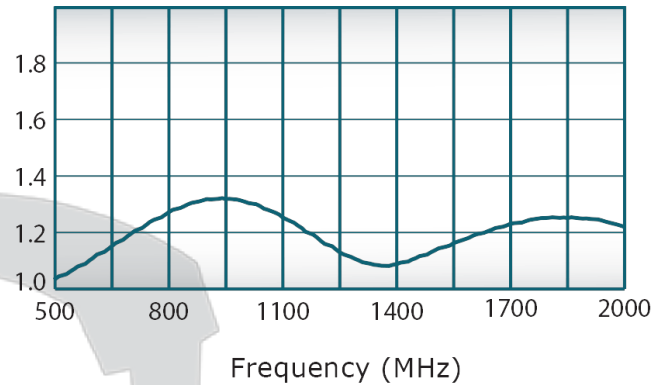
QH7902

Performance Data (Specifications subject to change without notice):

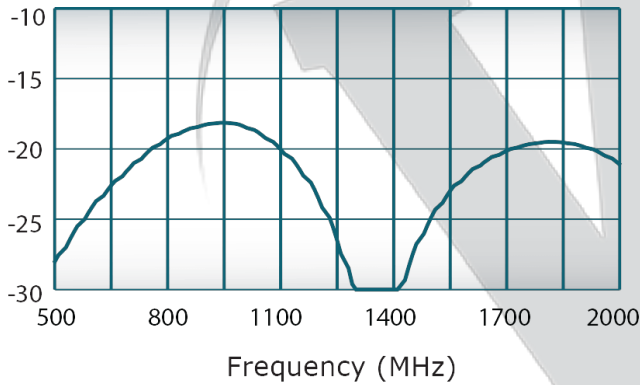
Coupling:



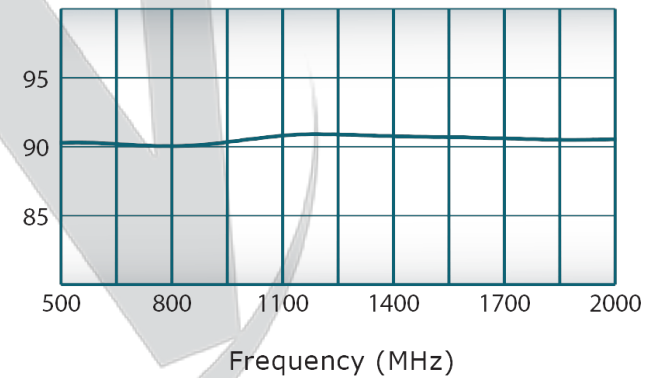
VSWR:



Isolation:



Phase Balance:

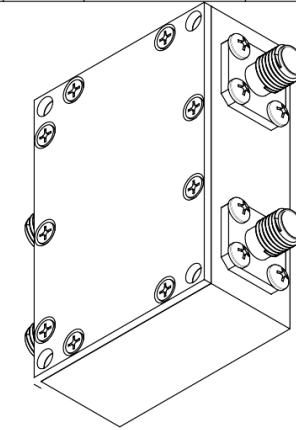
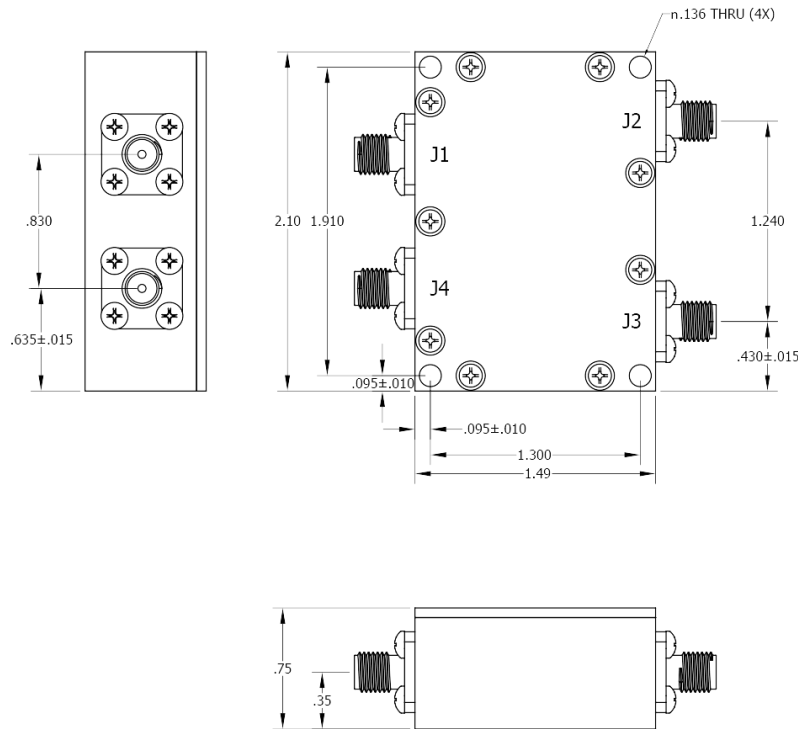




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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
5/20/2010	-	INITIAL RELEASE	GP	NH	BW
8/16/2011	A	ECN 5442	GP	NH	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563	
• INTERPRET DRAWING IAW MIL-STD-100 • DIMENSIONS/NOTES PER ASME Y14.5M-2009 • PARENTHESES, SUPP FOR REF ONLY • DIMENSIONS ARE IN INCHES • DIMENSIONAL LIMITS APPLY BEFORE PROCESSING		GP	8/16/2010				
		CHK	DATE	TITLE			
		ENGR	DATE				
		APVD	DATE				
		QA	DATE	SIZE	CAGE CODE	DWG NO	REV
		RLSE	DATE	A	28812	20650-500	A
THIRD ANGLE PROJECTION 		SCALE		1:1		SHEET 1 OF 1	

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