

PRODUCT DATA SHEET

QH9030

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: 100 - 512 MHz
 Power: 400 W CW
 Insertion Loss: 0.4 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: $90^\circ \pm 5^\circ$ Max.
 Amplitude Balance: ± 0.6 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: 0.75 lbs.
 Size: 4.0 x 2.42 x 1.1"

Connector Configurations:

Model	Sum Port (J1)	Inputs (J2,J3)	Ext. Load Port
QH9030-10	N Female	N Female	Not Applicable
QH9030-12	N Female	SMA	Not Applicable
QH9030-300	TNC	TNC	Not Applicable
QH9030-302	TNC	SMA	Not Applicable

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.

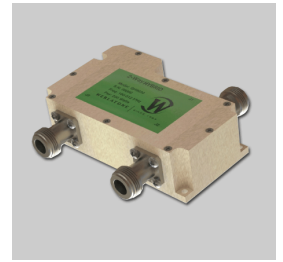
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WERLATONE

Model QH9030

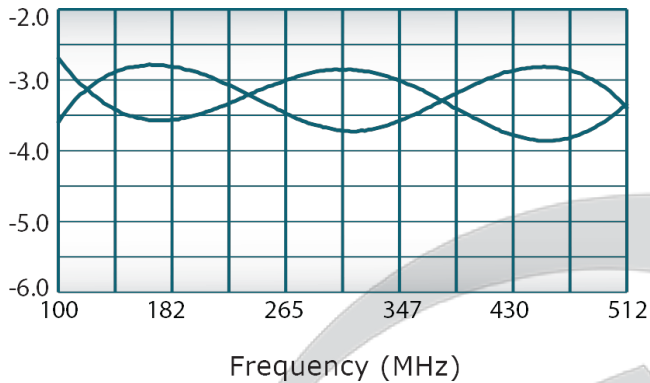


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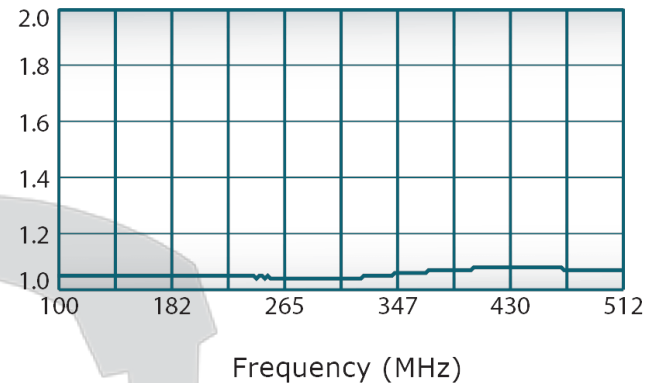
QH9030

Performance Data (Specifications subject to change without notice):

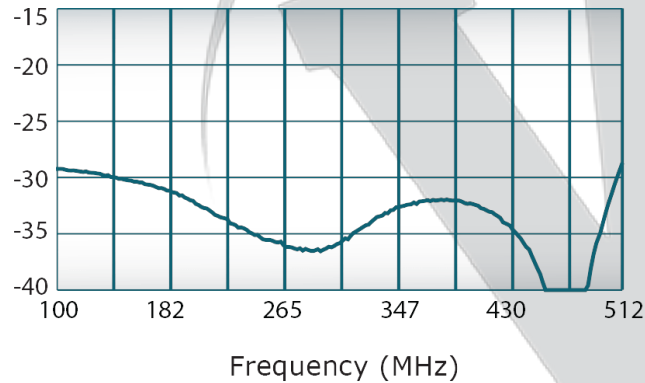
Coupling:



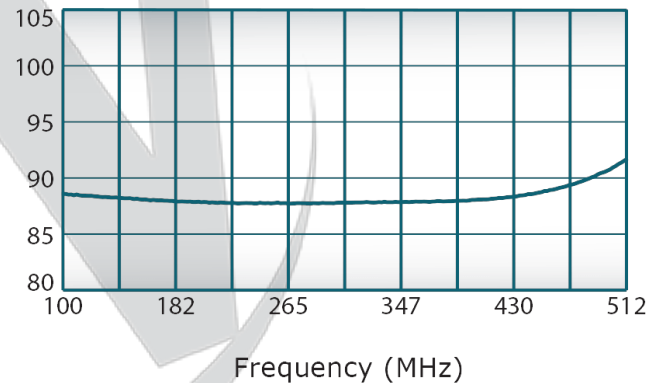
VSWR:



Isolation:



Phase Balance:

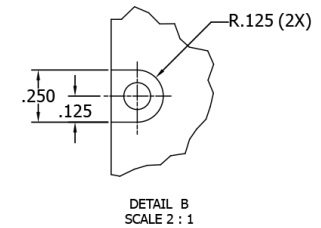
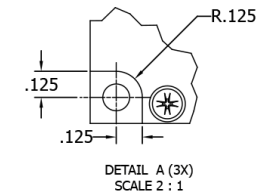
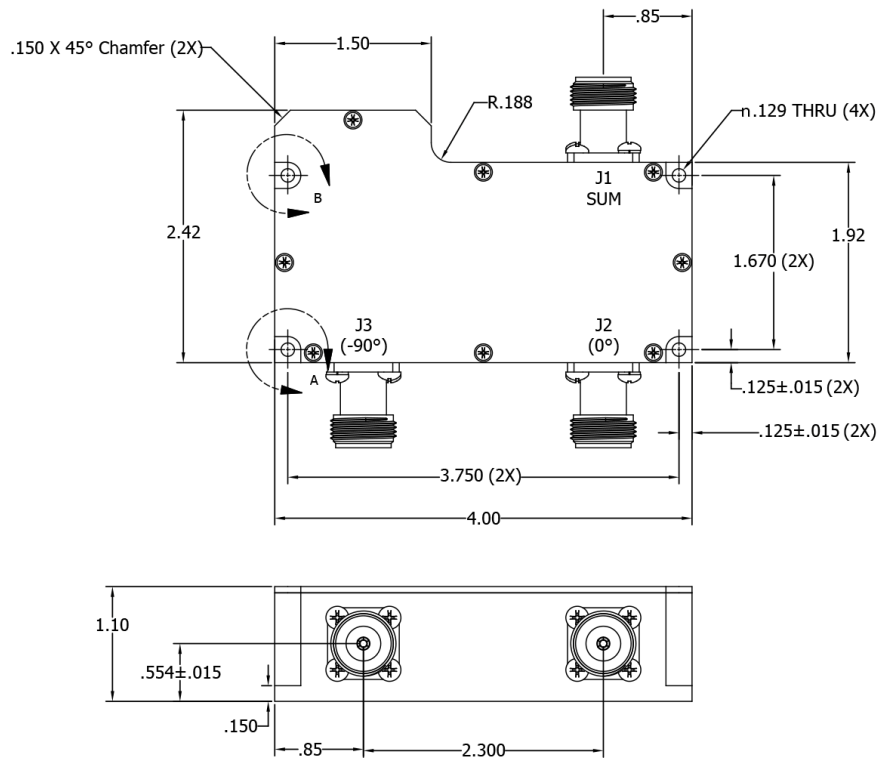


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REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
1	INITIAL RELEASE	6/17/2011	BW



UNLESS OTHERWISE SPECIFIED			
• INTERPRET DRAWING LAW PER ISO-100	DRAWN	DATE	6/17/2011
• DIMENSIONS PER ASME Y14.5M-2009	CHK	DATE	6/17/2011
• DIMENSIONS ARE IN INCHES	NH	DATE	6/17/2011
• DIMENSIONAL LIMITS APPLY BEFORE PROCESSING	ENGR	DATE	
• TOLERANCES: ANGLES ±2°	INPR	DATE	
3 PL ±.005	QA	DATE	
2 PL ±.015	RELSE	DATE	
• REMOVE ALL BURRS AND SHARP EDGES			
• R.125 MAX			
• CONCENTRICITY MACHINED DIA: .002 FIM			
• MACHINE TOOL MISMATCH .003 MAX			
THIRD ANGLE PROJECTION			
W		WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563
B		28812	20775-500
1:1		1	SHEET 1 OF 1

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