



PRODUCT DATA SHEET

QH9141

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: 150 - 2000 MHz
Power: 150 W CW
Insertion Loss: 0.85 dB Max.
VSWR: 1.40:1 Max.
Phase Balance: $90^\circ \pm 5^\circ$ Max.
Amplitude Balance: ± 0.75 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°C
Storage Temperature: -60°C to +85°C
Weight: 8 oz.
Size: 2.0 x 2.0 x 1.06"

Connector Configurations:

Model	Sum Port (J1)	0°, 90° (J2,J3)	Ext. Load Port
QH9141-10	N Female	N Female	N Female
QH9141-12	N Female	SMA	SMA
QH9141-102	SMA	SMA	SMA
QH9141-300	TNC	TNC	TNC

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 QH9141

90° Hybrids Connectorized

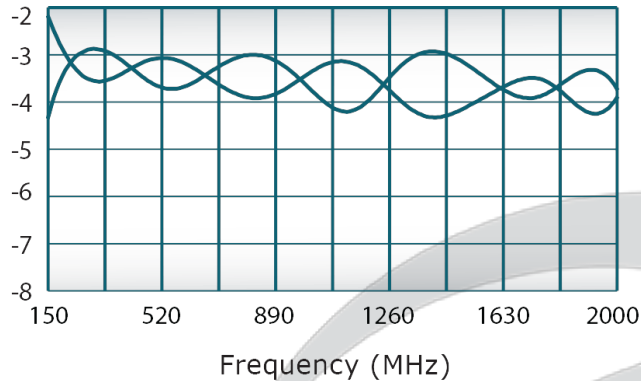


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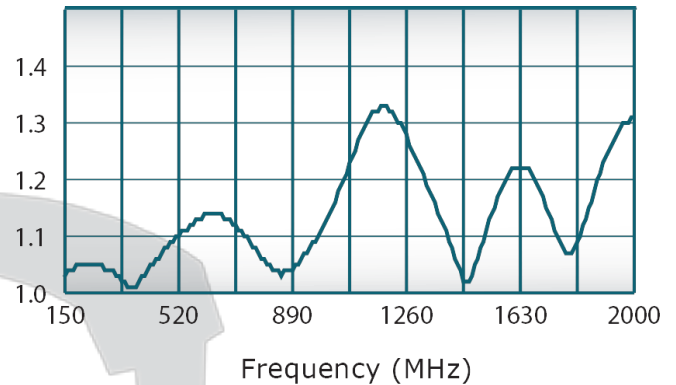
QH9141

Performance Data (Specifications subject to change without notice):

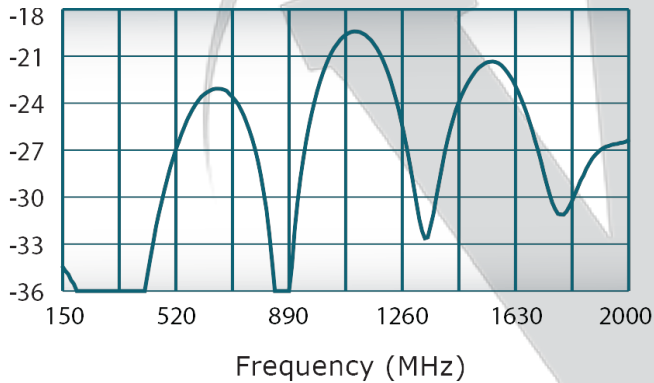
Coupling:



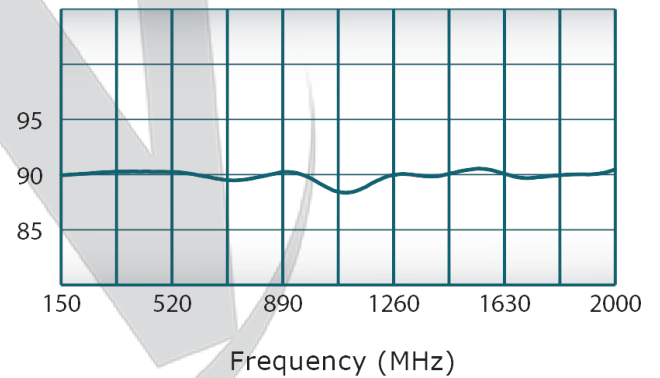
VSWR:



Isolation:



Phase Balance:

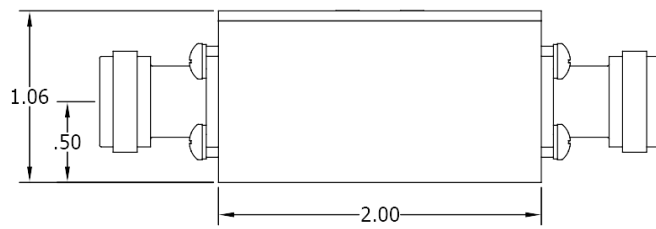
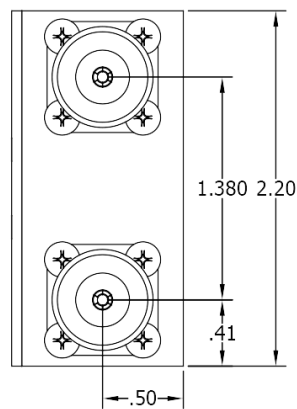
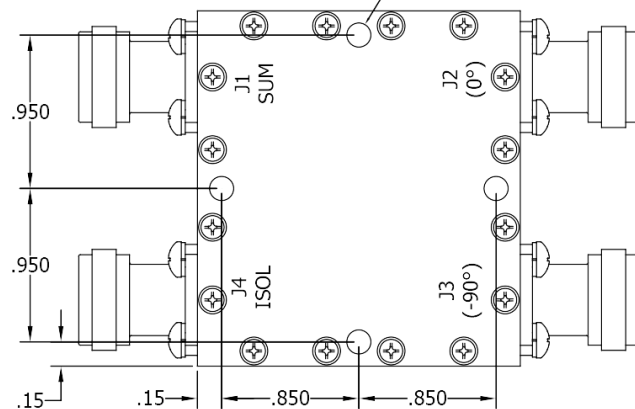


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n.149 THRU (4X)



REVISION HISTORY			
REV	REVISION RECORD	DATE	APPROVED
-	INITIAL RLS	10/7/2011	BW

		UNLESS OTHERWISE SPECIFIED		DWN	DATE	 WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563			
		• INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		CHK	DATE	TITLE		OUTLINE			
		• DIMENSIONING PER ASME Y14.5M-2009		BW	10/7/2011						
		• PARENTHETICAL INFO FOR REF ONLY		ENGR	DATE	SIZE	CAGE CODE			DWG NO	REV
		• DIMENSIONS ARE IN INCHES		BW	10/7/2011	A	28812			20810-500	-
		• DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		MFGR	DATE	SCALE				SHEET 1 OF 1	
		• TOLERANCES: ANGLES ± 2°		QA	DATE						
		.XXX ± .005		RLSE	DATE						
		.XX ± .015									
		• HOLE TOLERANCES +.004/- .001									
QH9141		• REMOVE ALL BURRS AND SHARP EDGES									
NEXT ASSY		R.01 MAX									
USED ON		• CONCENTRICITY MACHINED DIA: .002 FIM									
APPLICATION		• MACHINE TOOL MISMATCH: .003 MAX									
		THIRD ANGLE PROJECTION 									

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