

PRODUCT DATA SHEET

QH10350

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: 2 - 30 MHz
Power: 80 W CW
Insertion Loss: 0.5 dB Max.
VSWR: 1.30:1 Max.
Phase Balance: 90° ± 5° Max.
Amplitude Balance: ± 0.2 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: 4.0 x 4.0 x 2.25"

Connector Configurations:

Model	Sum Port (J1)	90°, 0° (J2,J3)	Difference Port (J4)
QH10350-10	N Female	N Female	N 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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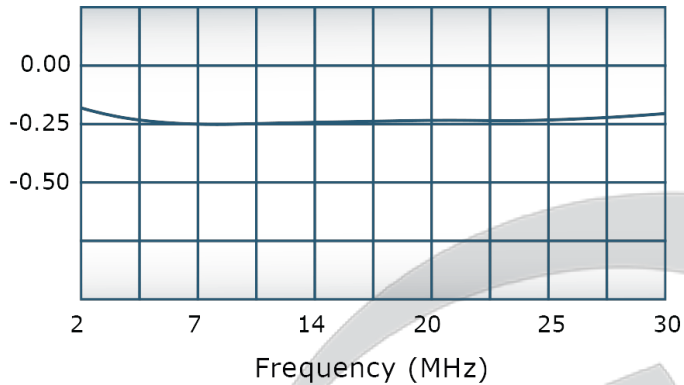
Model QH10350
90° Hybrids Connectorized

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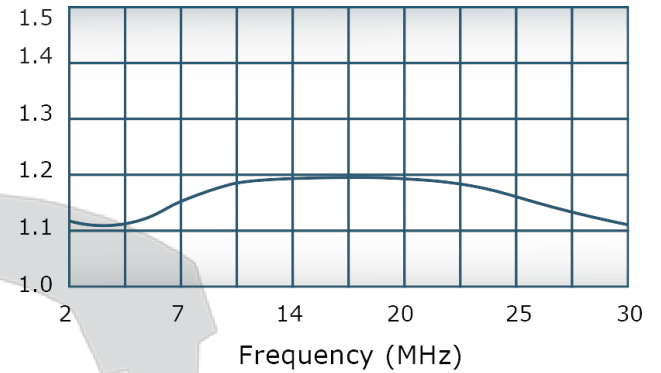
QH10350

Performance Data (Specifications subject to change without notice):

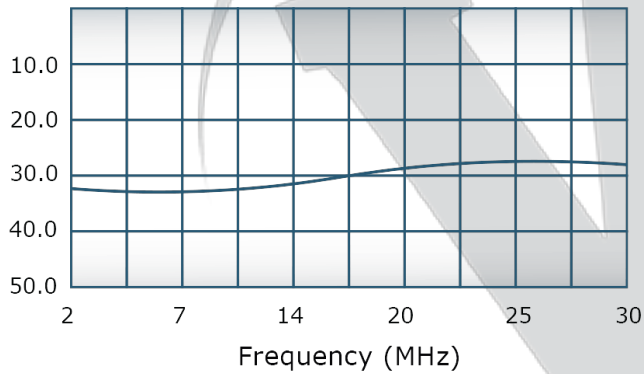
Insertion Loss:



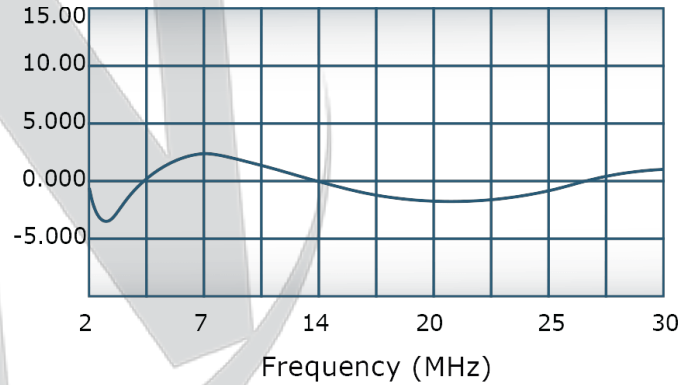
VSWR:



Isolation:



Phase Balance:

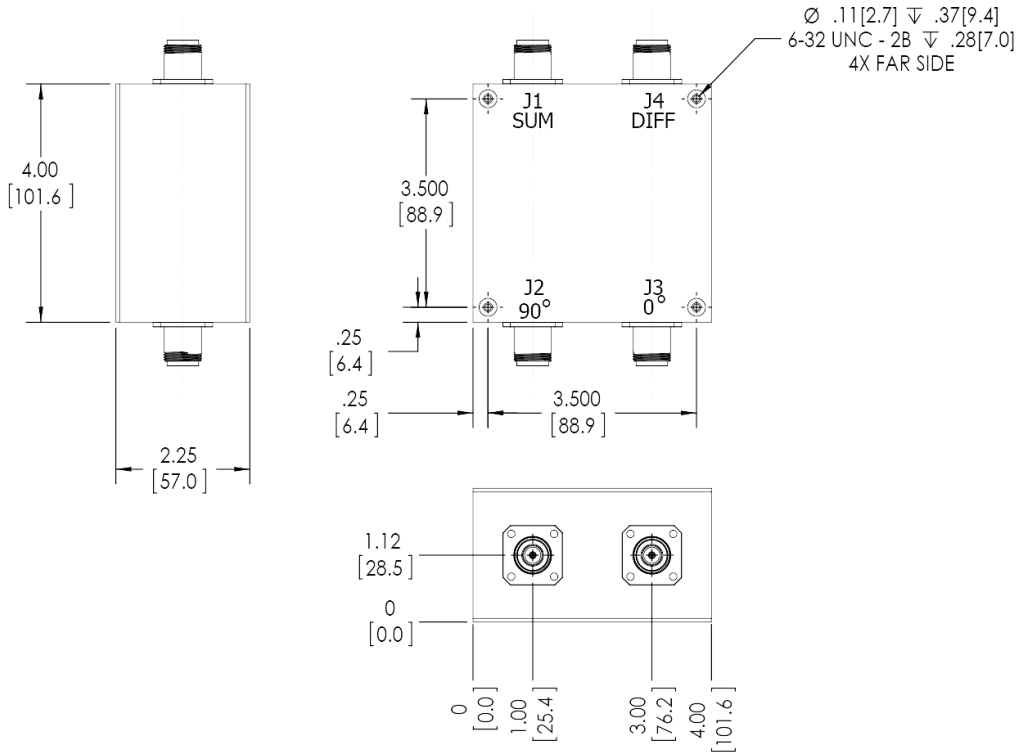


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
-	INITIAL RELEASE	2/21/2018	CS
A	ECN#9937	5/21/20	PR



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL: ALUMINUM**
- SURFACE FINISH: CHEM FILM PER MIL-DTL-5541F TYPE I CLASS 3 (YELLOW IRIDITE)**
- CONNECTORS: J1- J4 N (FEMALE)**

UNLESS OTHERWISE SPECIFIED		OWN	DATE	 WERLATONE SINCE 1965	17 Jon Barrett Rd Patterson, NY 12563	
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100		PLP	2/20/2018			
DIMENSIONS PER ASME Y14.5M-2009		CHK	DATE	TITLE	OUTLINE	REV
PARENTHESES FOR REFERENCE ONLY		CS	2/21/2018			
DIMENSIONS ARE IN INCHES (mm)		ENGR	DATE	SIZE	CAGE CODE	DWG NO.
DIMENSIONAL LIMITS APPLY UNLESS OTHERWISE SPECIFIED		INPR	DATE			
TOLERANCES:		QA	DATE	SCALE	B 28812	21588-500
ANGLES ± 2°		RLSE	DATE			
3 PL ± .005 [13]				1:2		SHEET 1 OF 1
2 PL ± .015 [4]						
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX						
CONCENTRICITY MACHINED DIA. .002 FPM						
MACHINE TOOL MISMATCH .003 FPM						

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