

QUAD HYBRID QHDZ-2X-1.1G

TECHNICAL FEATURE

FEATURES

- 0.96 1.215 GHz
- · High Isolation

- Multiple Plating Options
- Space Qualified Version Available
- Surface Mount
- Tape & Reel Available

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PRINCIPAL SPECIFICATIONS									
Model Number	Frequency Range GHz	Insertion Loss dB Max.	Amplitude Balance dB Max.	Phase Balance Max.	VSWR, Max. All Ports	lsoloation dB Min.	Input Power Max.		
QHDZ-2X-1.1G	0.96 - 1.215	0.40	± 0.30 dB	90±3°	1.20:1	20	30		

GENERAL NOTES

The Multi-Mix® Zapper® QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multi-couplers and RF signal distribution and processing equipment.

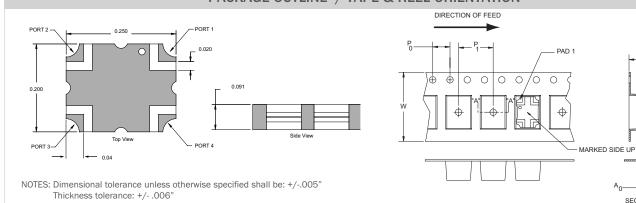
QHDZ quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

GENERAL SPECIFICATIONS

Size	0.25" x 0.20" x 0.091"
Weight, max	0.006 oz. (0.156 g)
RF Interface	Leadless Surface Mount
Operating Temperature	55° to +95° C

TRUTH TABLE									
	1	2	3	4					
1	Input	lso	-90°	0°					
2	lso	Input	0°	-90°					
3	-90°	0°	Input	lso					
4	0°	-90°	lso	Input					

SECTION "A"-"A"



Individual units will not be marked, but tape and reel packaging will include the Merrimac part # and date code. Individual units will have an index mark etched as shown on the data sheets.

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PACKAGE OUTLINE / TAPE & REEL ORIENTATION

QHDZ-2X-1.1G Rev. 4, 04/30/2021 U.S. Patent 6,099,677 and other Patents Pending.

DS_Quad_QHDZ2X11G_043021.indd. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2021 Crane Electronics, Inc. All rights reserved.

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METRIC (mm) 16.00 8.00 4.00

P₀

ENGLISH (in) 0.6299 0.3150 0.1575 0.213 0.2708 0.0649

P1

B₀

6.88

K₀

A₀

5.41

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