

QUAD HYBRID - QHDZ-2X-0.9G SQ

TECHNICAL FEATURE

FEATURES

- 800 - 1000 MHz
 - Space Qualified
 - Multiple Plating Options
 - Excellent Phase / Amplitude Balance
- High Isolation
 - Low Loss
 - Surface Mount
 - Tape & Reel Available



PERFORMANCE

Frequency Range.....	0.8 - 1.0 GHz
Isolation	20 dB min.
Insertion Loss	0.35 dB max.
VSWR.....	1.20:1 max.
Amplitude Balance	±0.30 dB max.
Phase Balance	90 ± 3° max.
Input Power	30 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +85°C

DESCRIPTION

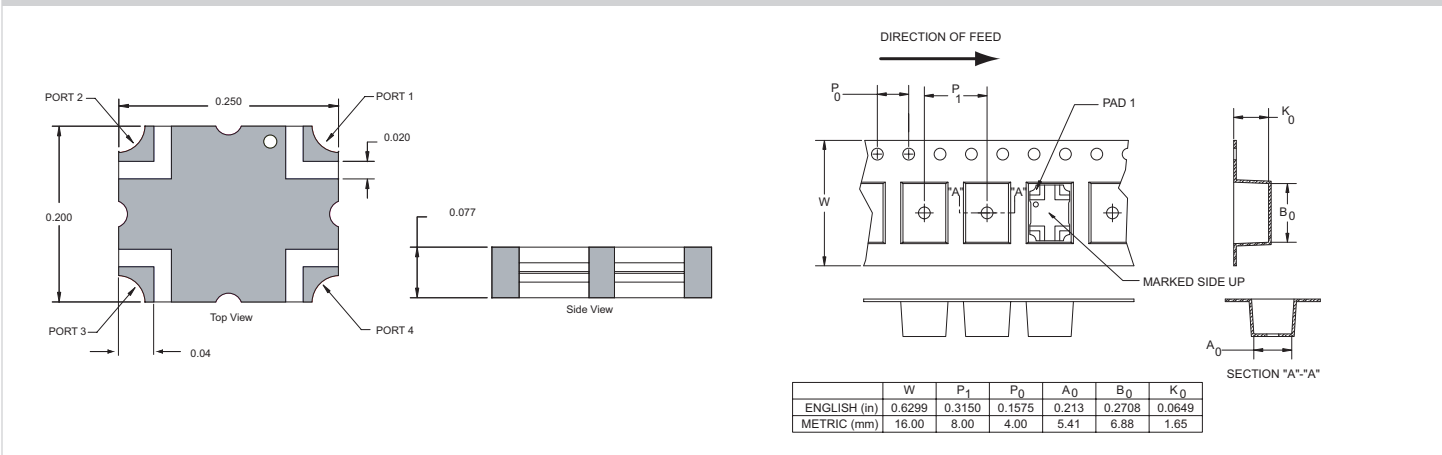
The Multi-Mix[®] Zapper[®] QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing.

QHD 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.

Parts, materials and processes are in accordance with Merrimac document CENG-0001 "Standard Design Requirements for Space Qualified Devices".

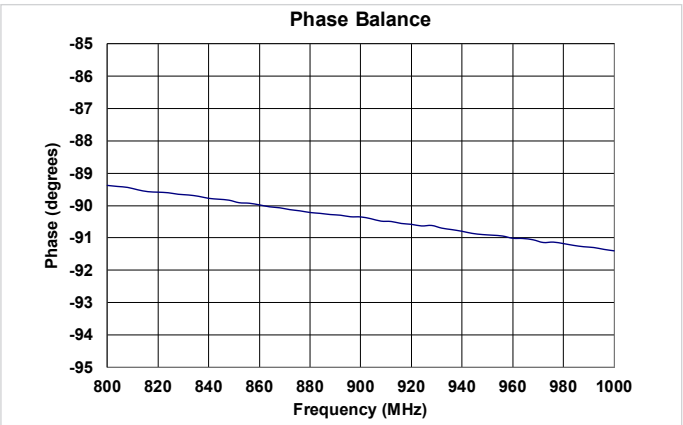
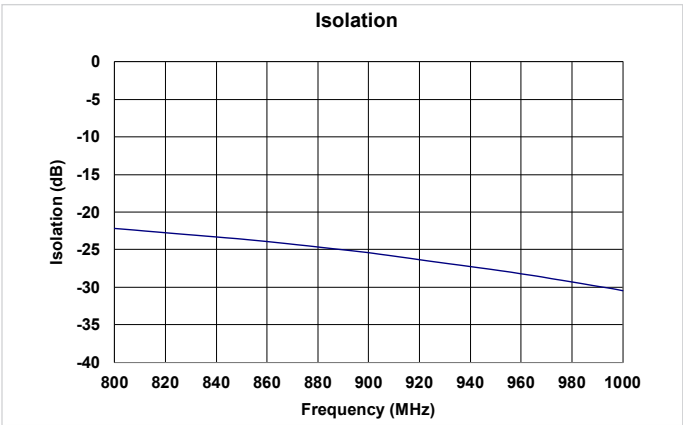
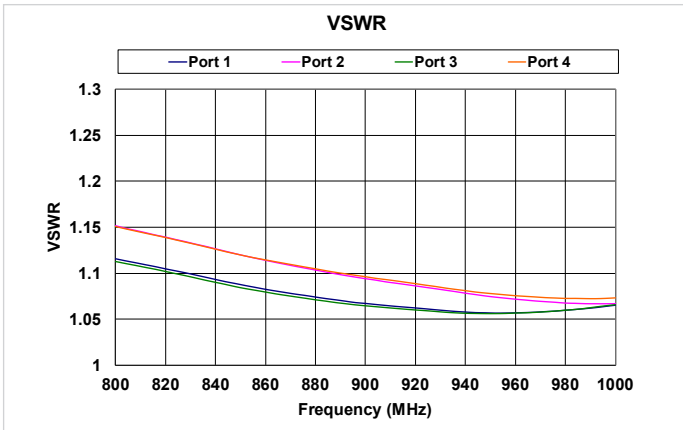
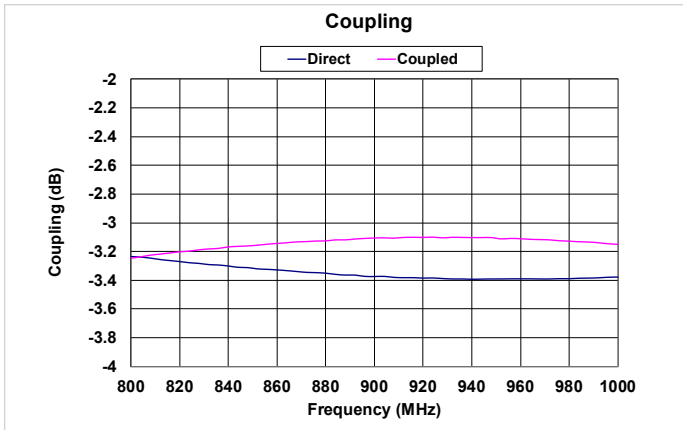
Beginning 05/02/13, individual units will not be marked, but tape and reel packaging will include the Merrimac part # and date code. Individual units will have an index mark etched as shown on the data sheets.

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

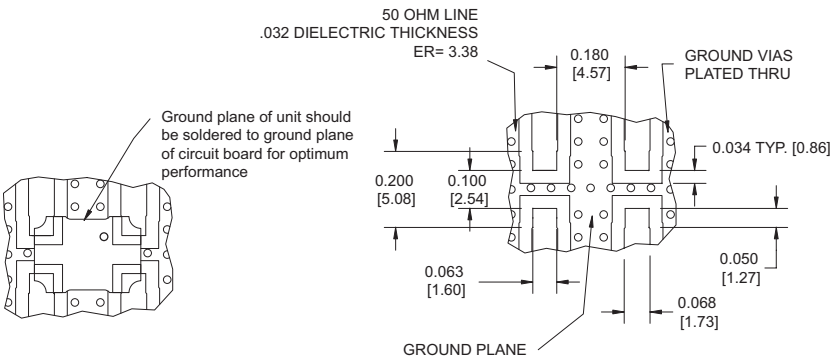


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PERFORMANCE DATA



MOUNTING GUIDELINES



TRUTH TABLE

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

DS_Quad_QHDZ2X095GSQ_022624.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 © 2017 Crane Aerospace & Electronics. All rights reserved.

