

MULTI-Mix
ZAPPER®

QHDZ-2XL-3.5G
QUAD HYBRID

REV: 001, 07/25/05

TECHNICAL DESCRIPTION

FEATURES

- 3.3 - 3.7 GHz
- LOW LOSS
- LOW VSWR
- SURFACE MOUNT
- TAPE & REEL AVAILABLE



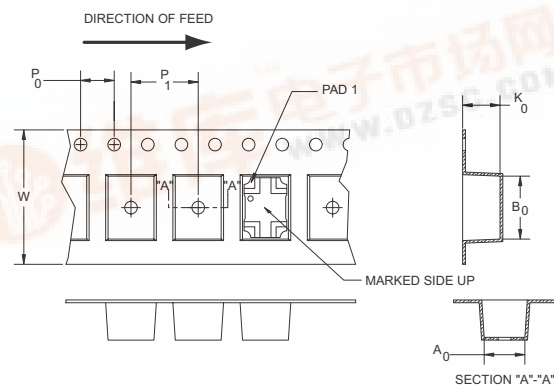
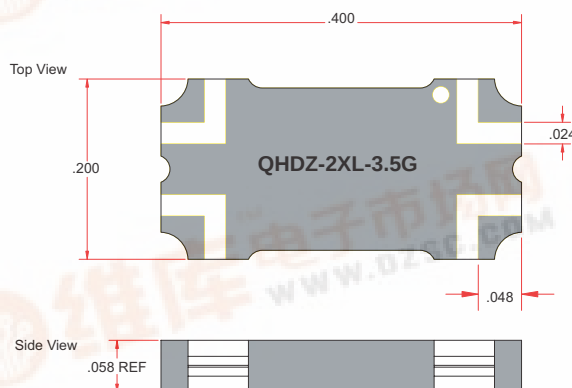
The Multi-Mix® QHDZ series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing equipment.

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

FREQUENCY RANGE GHz		INSERTION LOSS (dB MAX)	AMPLITUDE BALANCE (dB MAX)	PHASE BALANCE	ISOLATION (dB MIN)
3.3 - 3.7		0.25	± 0.2	90 ± 3°	23
VSWR (MAX, ALL PORTS)	INPUT POWER (WATTS)	SIZE (INCHES)	WEIGHT (OZ./GRAMS)	RF INTERFACE	OPERATING TEMPERATURE
1.15:1	100 W	0.40 x 0.20 x 0.058	0.006 / 0.18	Surface Mount	-55° - +95° C

PACKAGE OUTLINE / TAPE & REEL ORIENTATION



	W	P ₁	P ₀	A ₀	B ₀	K ₀
ENGLISH (in)	0.6299	0.3150	0.1575	0.213	0.2708	0.0649
METRIC (mm)	16.00	8.00	4.00	5.41	6.88	1.65

THE MULTI-MIX MICROTECHNOLOGY® GROUP IS ISO 9001:2000 REGISTERED



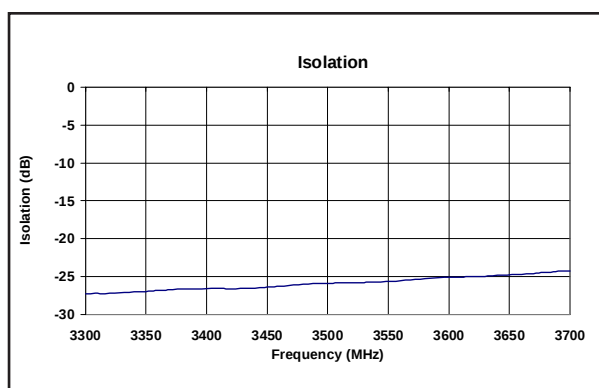
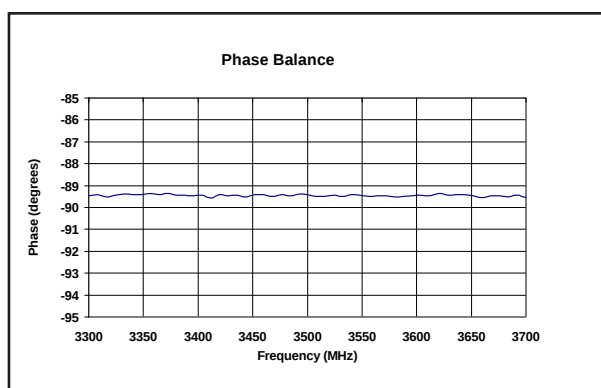
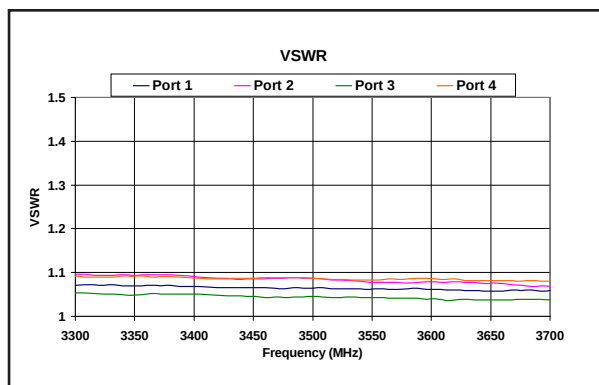
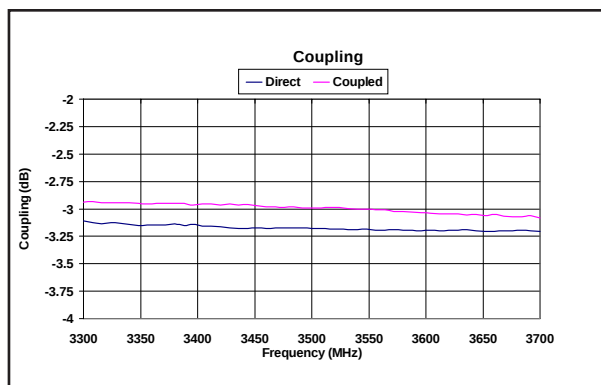
U.S. Patent 6,099,677 and other Patents Pending.

Merrimac Industries / 41 Fairfield Place, West Caldwell, NJ 07006

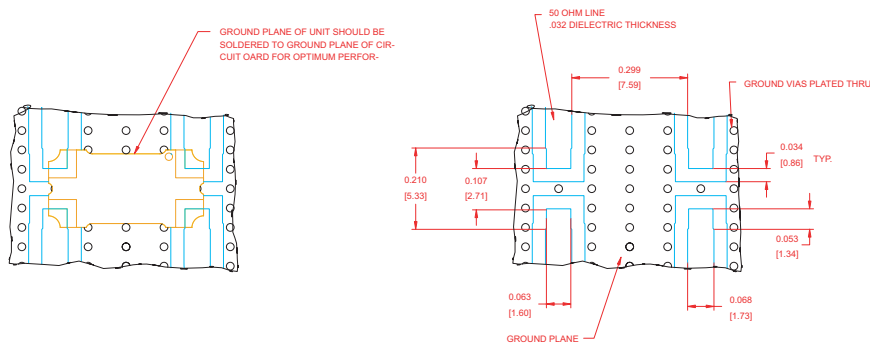
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TYPICAL PERFORMANCE



MOUNTING CONFIGURATION



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