

TECHNICAL FEATURE

FEATURES

- 0.96 - 1.215 GHz
- High Isolation
- Multiple Plating Options
- Space Qualified Version Available
- Surface Mount
- Tape & Reel Available

PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range GHz	Insertion Loss dB Max.	Amplitude Balance dB Max.	Phase Balance Max.	VSWR, Max. All Ports	Isolation dB Min.	Input Power Max.
QHDZ-2X-1.1G SQ	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.

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

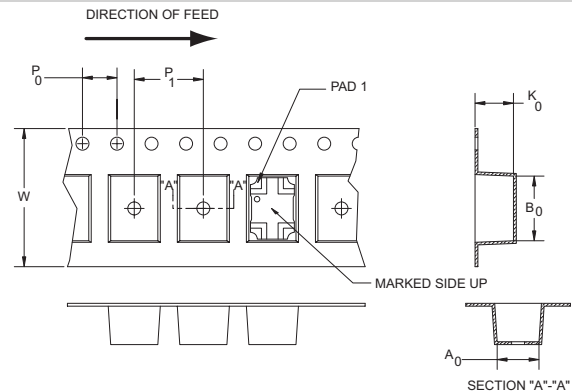
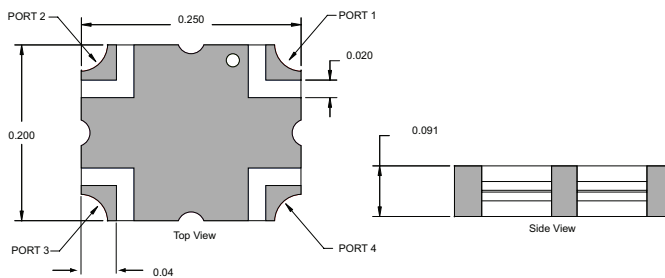
GENERAL SPECIFICATIONS

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	Iso	-90°	0°
2	Iso	Input	0°	-90°
3	-90°	0°	Input	Iso
4	0°	-90°	Iso	Input

PACKAGE OUTLINE / TAPE & REEL ORIENTATION



NOTES: Dimensional tolerance unless otherwise specified shall be: +/- .005"
 Thickness tolerance: +/- .006"
 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.

	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

QUAD HYBRID - QHDZ-2X-1.1G SQ

MOUNTING GUIDELINES

