

TECHNICAL DESCRIPTION

MULTI-MIX PICO™ Z SERIES QUAD HYBRIDS

- 2.0 - 2.3 GHz
- HIGH POWER...100 WATTS CW
- LOW LOSS
- LOW VSWR
- SURFACE MOUNT
- TAPE & REEL



The Multi-Mix® QHD 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.

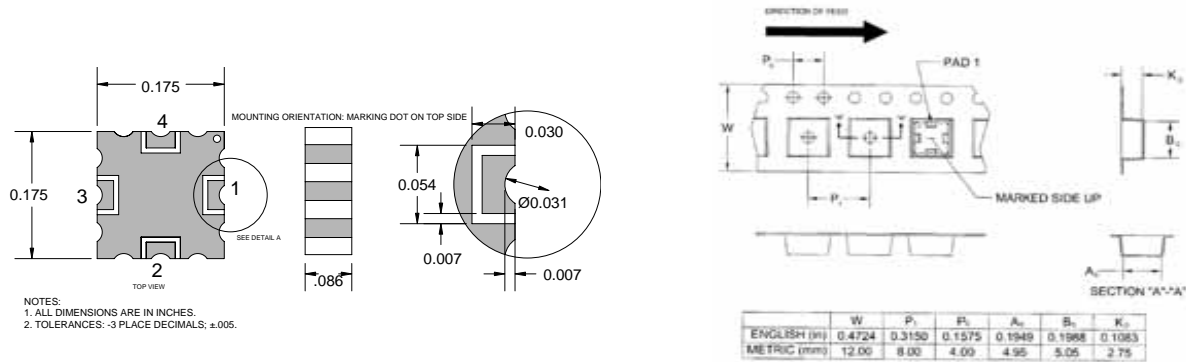
QHD quad hybrids are fusion bonded multilayer stripline devices. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

GENERAL SPECIFICATIONS

FREQUENCY RANGE GHz		ISOLATION (dB MIN)	INSERTION LOSS (dB MAX)	VSWR (MAX)	AMPLITUDE BALANCE (dB MAX)
2.0 - 2.3		20	0.25	1.27:1	±0.25
PHASE BALANCE (MAX)	INPUT POWER (CW,MAX)*	SIZE (INCHES)	WEIGHT (GRAMS/OZ.)	RF INTERFACE	OPERATING TEMPERATURE
±3°	100 W	0.18 x 0.18 x 0.086	0.12 / 0.003	Surface Mount	-55° - +85° C

*CW input power, tested in fixture with heat sink at 25° C.

PACKAGE OUTLINE / TAPE AND REEL ORIENTATION



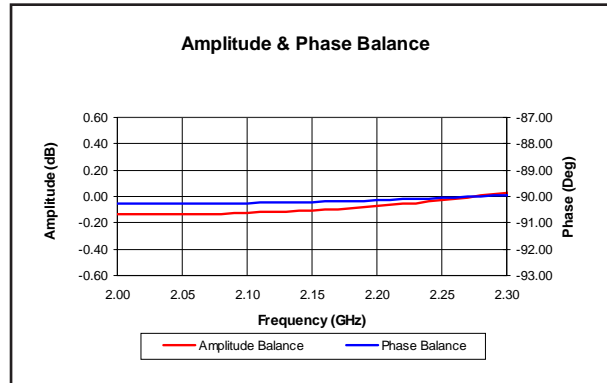
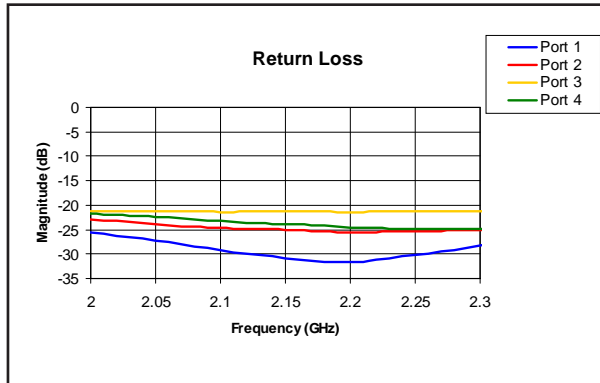
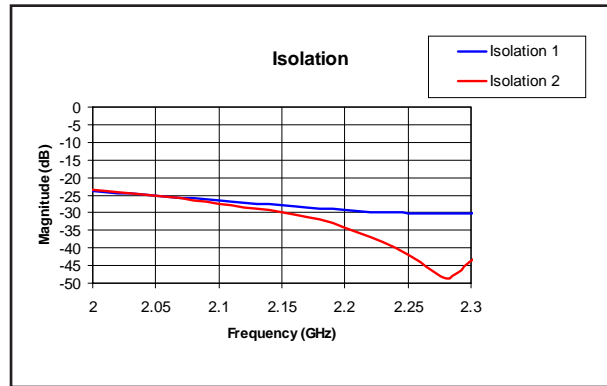
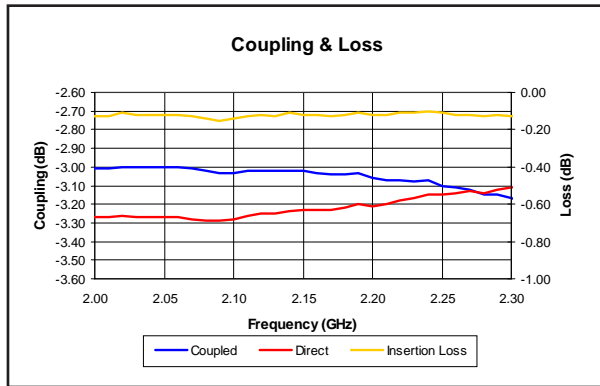
NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. TOLERANCES: -3 PLACE DECIMALS; ±.005.

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

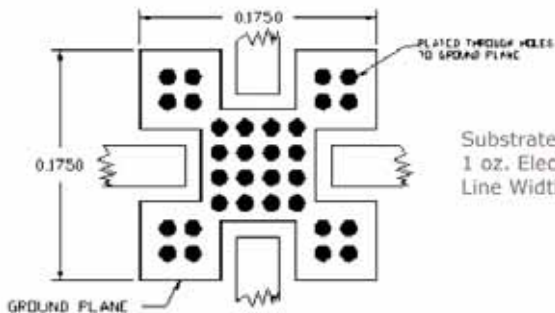


U.S. Patent 6,099,677 and other Patents Pending.

TYPICAL PERFORMANCE



MOUNTING CONFIGURATION



Substrate Material = Rogers RO4003; 0.020" Thickness;
 1 oz. Electrodeposited Copper Feed Transmission Lines = Grounded CPW;
 Line Width = 0.039" Line-Ground Spacing = 0.015"

TRUTH TABLE

	1	2	3	4
1	In	0	Isolated	-90
2	0	In	-90	Isolated
3	Isolated	-90	In	0
4	-90	Isolated	0	In