

TECHNICAL DESCRIPTION

FEATURES

- 800 - 1000 MHz
- LOW LOSS
- HIGH ISOLATION
- EXCELLENT PHASE/AMPLITUDE BALANCE
- SURFACE MOUNT

APPLICATIONS

- GSM 800 BASE STATION RF SUBSYSTEMS
- GSM 900 BASE STATION RF SUBSYSTEMS
- LAND MOBILE RADIO (LMR) SYSTEMS
- RADAR COMMUNICATIONS
- TV TRANSMITTERS



RoHS Compliant

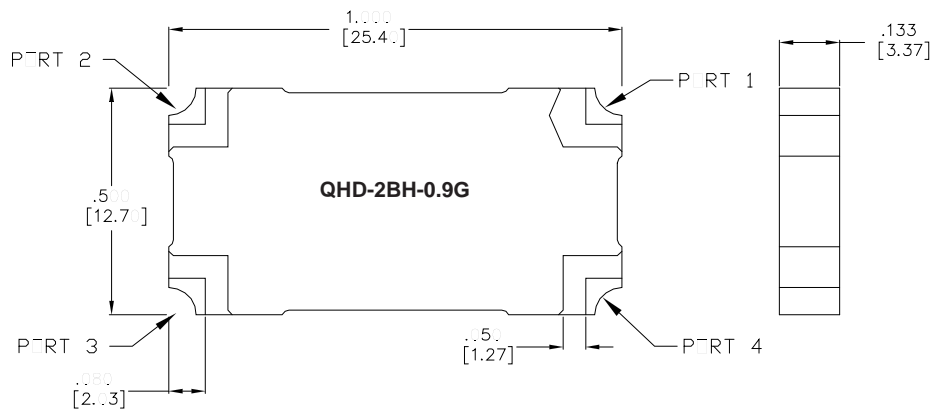
The Multi-Mix[®] QHD series provides a 3 dB 90° coupling with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make this series ideal for use in IQ networks, power amplifiers, radio transceivers, receiver multicouplers and RF signal distribution and processing equipment.

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 (MHz)		INSERTION LOSS (dB MAX)	AMPLITUDE BALANCE (dB MAX)	PHASE BALANCE
815 - 900		0.12	± 0.15	90 ± 2°
800 - 1000		0.15		
ISOLATION (dB MIN)	VSWR (MAX, ALL PORTS)	AVERAGE POWER (WATTS, MAX.)	RF INTERFACE	OPERATING TEMPERATURE
25 23	1.12:1 1.15:1	450	Leadless Surface Mount	-55° - +85° C

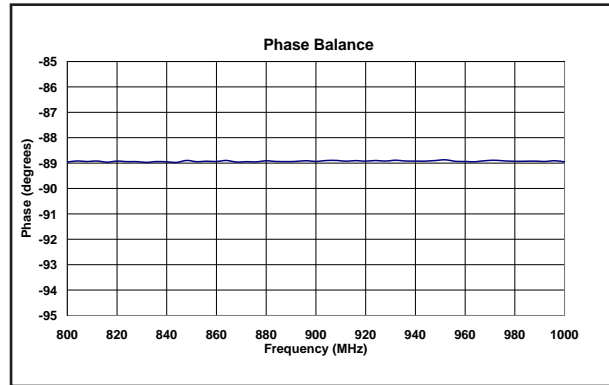
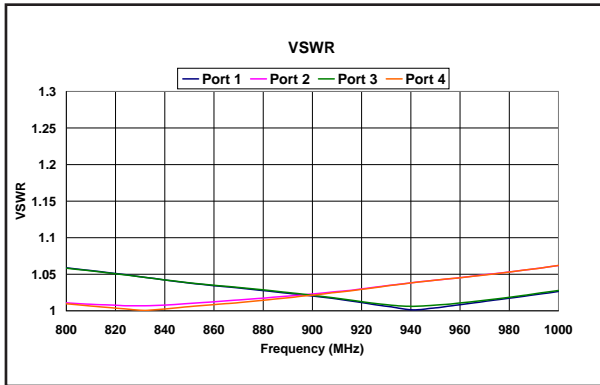
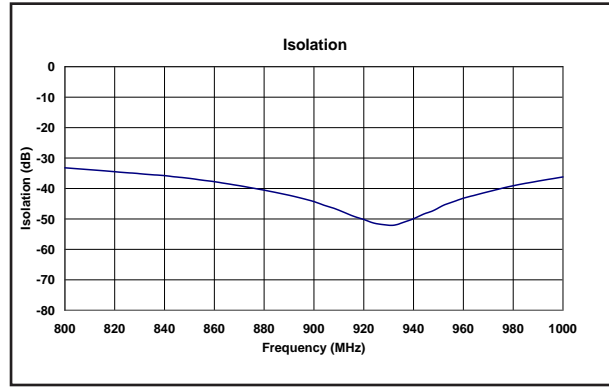
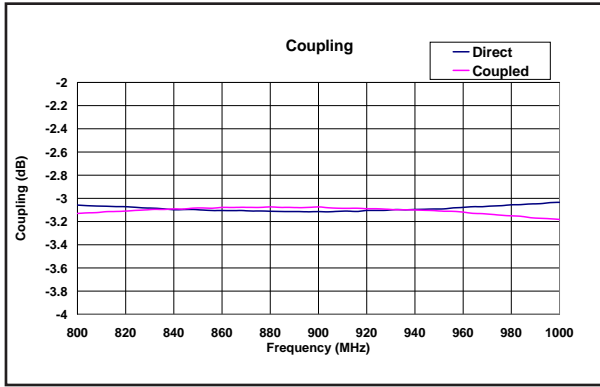
PACKAGE OUTLINE



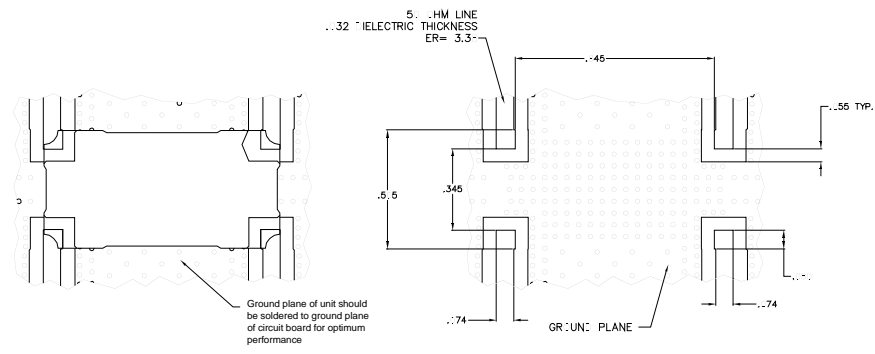
THE MULTI-MIX MICROTECHNOLOGY[®] GROUP IS ISO 9001:2000 REGISTERED

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

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