

TECHNICAL DESCRIPTION

- 2.0 - 18.0 GHz
- LOW LOSS
- HIGH ISOLATION
- EXCELLENT PHASE/AMPLITUDE BALANCE
- CO-PLANAR LAUNCH
- Ni/Au Finish



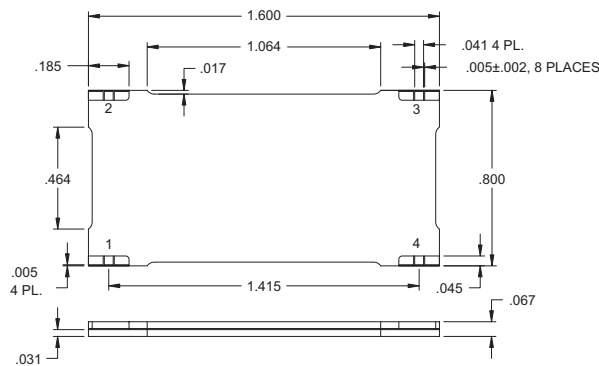
The Multi-Mix® QHD series provides a 3 dB coupler with low insertion loss, low VSWR, and high isolation. Accurate phase and amplitude balance make them ideal for applications involving IQ networks, power amplifiers, signal distribution and processing equipment.

QHD quad hybrids are fusion bonded multilayer stripline assemblies. 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)
2.0 - 18.0		2	± 1.0	90 ± 8°	15
VSWR, MAX. (ALL PORTS)	INPUT POWER (CW @ 1.3:1 LOAD VSWR)	SIZE (INCHES)	WEIGHT (OZ./GRAMS)	RF INTERFACE	OPERATING TEMPERATURE
1.5:1	30 W	1.60 x 0.75 x 0.065	0.13 / 3.6	Gold Plated CPW Launch	-55° TO +85° C

PACKAGE OUTLINE

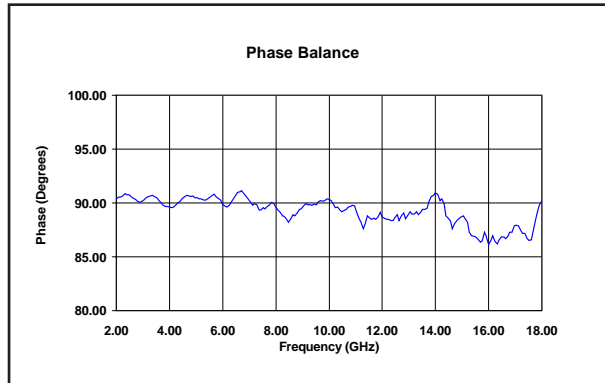
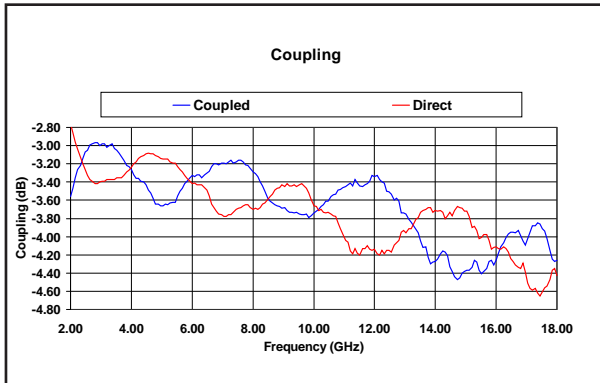
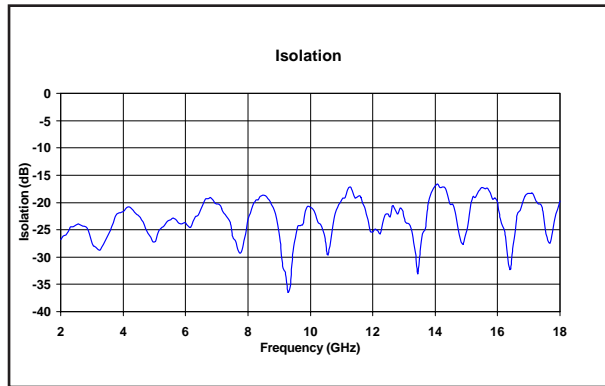
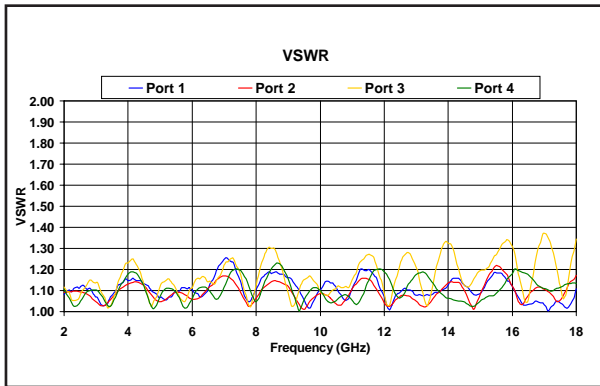


THE MULTI-MIX MICROTECHNOLOGY® GROUP IS ISO-9001 REGISTERED



U.S. patent 6,099,677 and other patents pending.

TYPICAL PERFORMANCE



TRUTH TABLE

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