

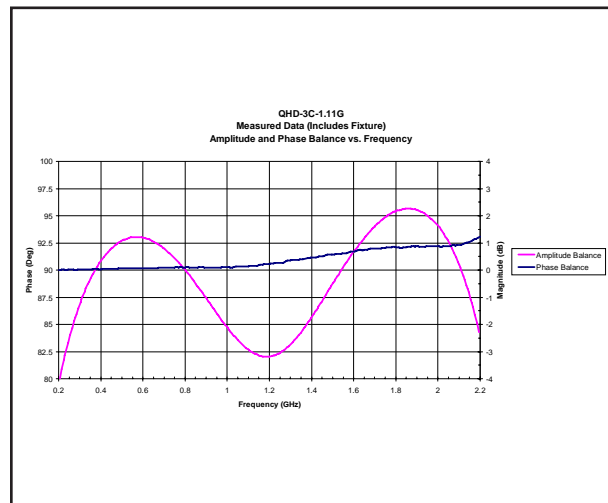
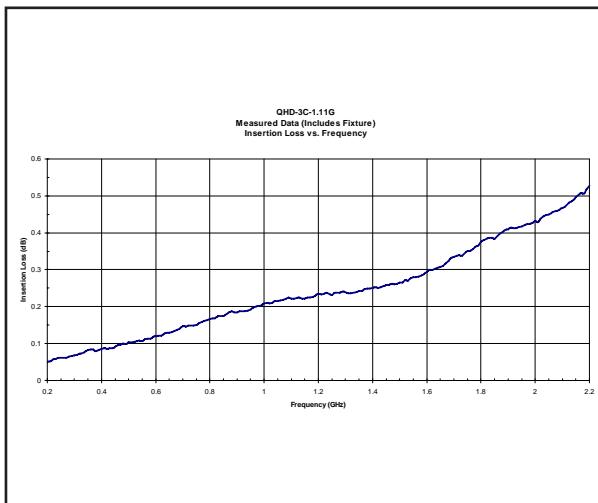
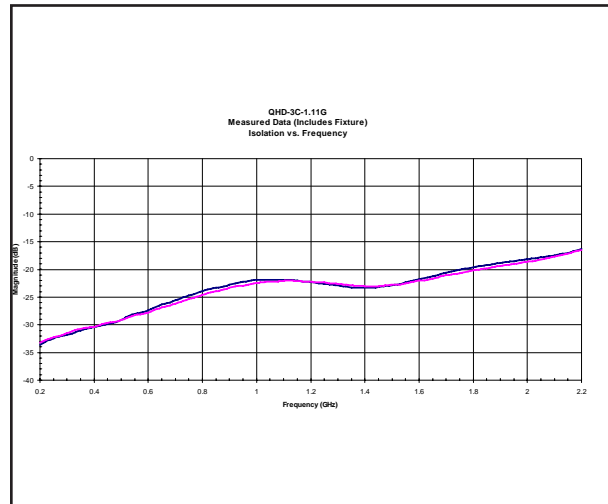
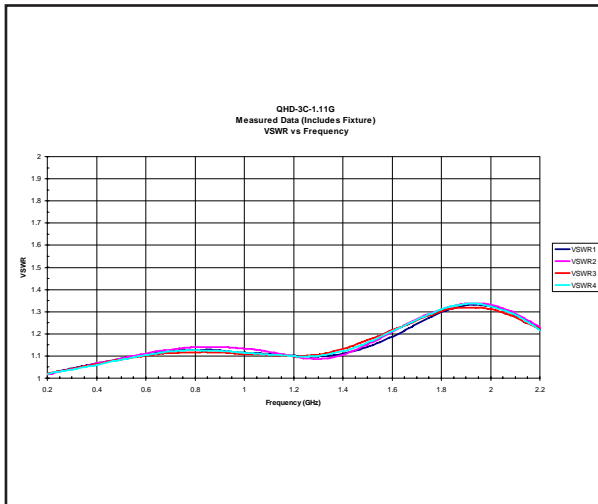
## TECHNICAL DESCRIPTION / APPLICATION

### MULTI-MIX<sup>®</sup> QUADS

The Multi-Mix<sup>®</sup> 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.

## TYPICAL PERFORMANCE



THE MULTI-MIX MICROTECHNOLOGY<sup>®</sup> GROUP IS ISO-9001:2000 REGISTERED



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

# GENERAL SPECIFICATIONS

QHD-3C-1.11G

## ELECTRICAL

|                                      |                   |
|--------------------------------------|-------------------|
| FREQUENCY RANGE                      | 0.225 TO 2.0 GHz  |
| INSERTION LOSS                       | 0.4 dB (MAX)      |
| AMPLITUDE BALANCE                    | +/- 1.75 dB (MAX) |
| PHASE BALANCE                        | ±5° (MAX)         |
| ISOLATION                            | 15 dB (MIN)       |
| VSWR (ALL PORTS)                     | 1.5:1 (MAX)       |
| INPUT POWER (CW @ 1.3:1 OUTPUT VSWR) | 200 W (TYP)       |

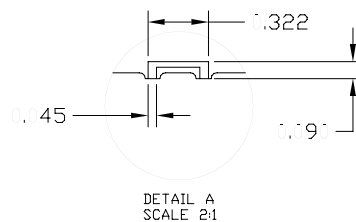
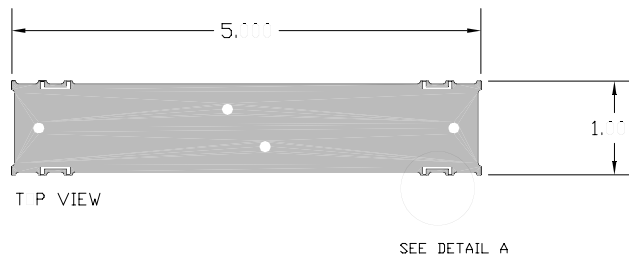
## MECHANICAL

|                |                            |
|----------------|----------------------------|
| SIZE / OUTLINE | 5.00 x 1.00 x 0.365 inches |
| WEIGHT         | 3 oz.                      |
| RF INTERFACE   | Surface Mount              |

## ENVIRONMENTAL

|                             |                  |
|-----------------------------|------------------|
| OPERATING TEMPERATURE RANGE | -55° To + 85°, C |
|-----------------------------|------------------|

## PACKAGE OUTLINE



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

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