

# QUAD HYBRID - QHD-3C-10G

## TECHNICAL FEATURE

### FEATURES

- 2.0 - 18.0 GHz
- High Isolation
- Low Loss
- Excellent Phase / Amplitude Balance
- Co-planar launch
- Ni/Au finish



### PERFORMANCE

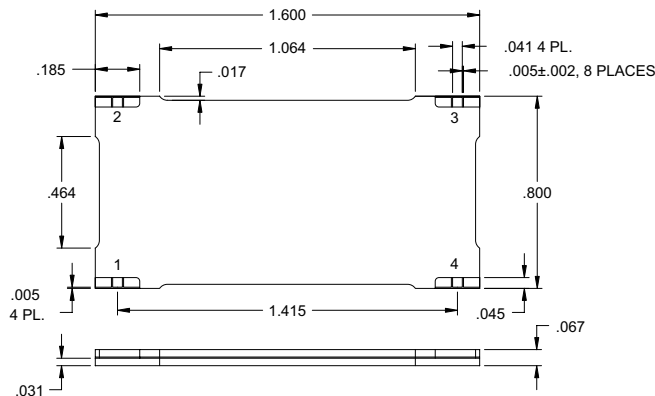
Frequency Range.....	2.0 - 18.0 GHz
Isolation .....	15 dB min.
Insertion Loss .....	2.0 dB max.
VSWR.....	1.5:1 max.
Amplitude Balance .....	±1.0 dB max.
Phase Balance .....	90 ± 8° max.
Input Power .....	30 watts typ.
RF Interface.....	Gold plated CPW launch
Operating Temperature Range .....	-55 to +85°C

### DESCRIPTION

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.

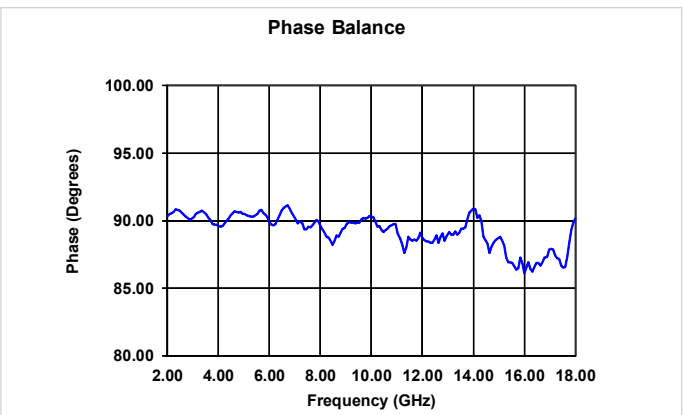
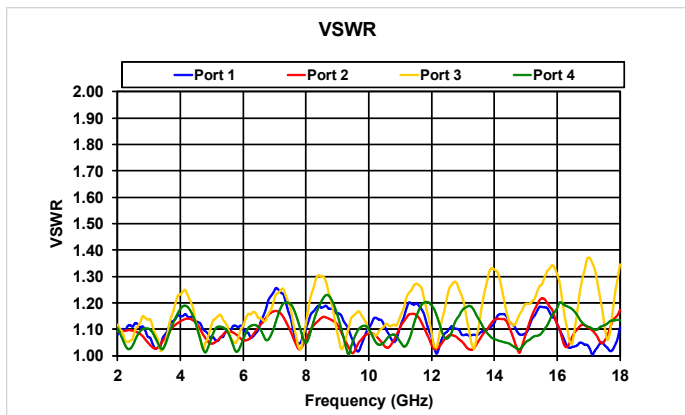
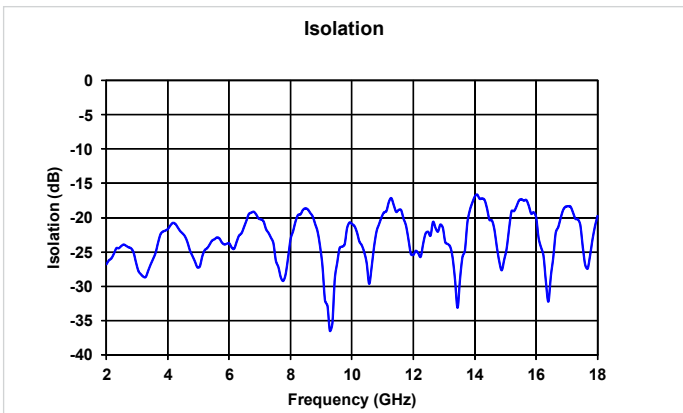
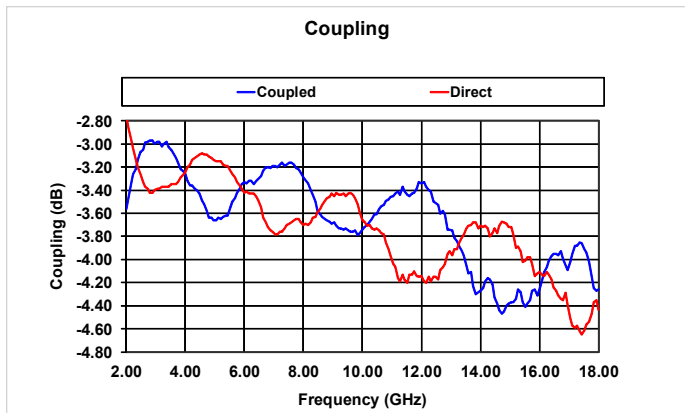
QHD quad hybrids are fusion bonded multilayer stripline assemblies. The fusion bonding process yields a homogeneous monolithic dielectric structure with reliability, ruggedness, and electrical performance that is superior to conventional adhesive bonding techniques.

## PACKAGE OUTLINE



# QUAD HYBRID - QHD-3C-10G

## PERFORMANCE DATA



## 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

DS\_Quad\_QHD3C10G\_070605.indd. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2011 Crane Electronics, Inc. All rights reserved.

