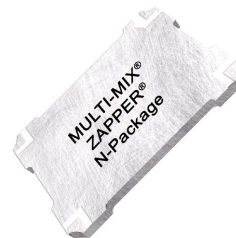


QUAD HYBRID - QHDZ-2N-0.45G SQ

TECHNICAL FEATURE

FEATURES

- 380 - 520 MHz
- High Power Handling
- Space Qualified
- Low Loss
- Multiple Plating Options
- Surface Mount
- High Isolation
- Tape & Reel Available
- Excellent Phase / Amplitude Balance



PERFORMANCE

Frequency Range.....	410 - 480 MHz
.....	380 - 520 MHz
Isolation	23 dB min.
.....	20 dB min.
Insertion Loss	0.2 dB max.
.....	0.3 dB max.
VSWR.....	1.15:1 max.
.....	1.20:1 max.
Amplitude Balance	±0.15 dB max.
.....	±0.3 dB max.
Phase Balance	90 ± 2° max.
.....	90 ± 3° max.
Input Power	200 watts max.
RF Interface.....	Surface mount
Operating Temperature Range	-55 to +95°C

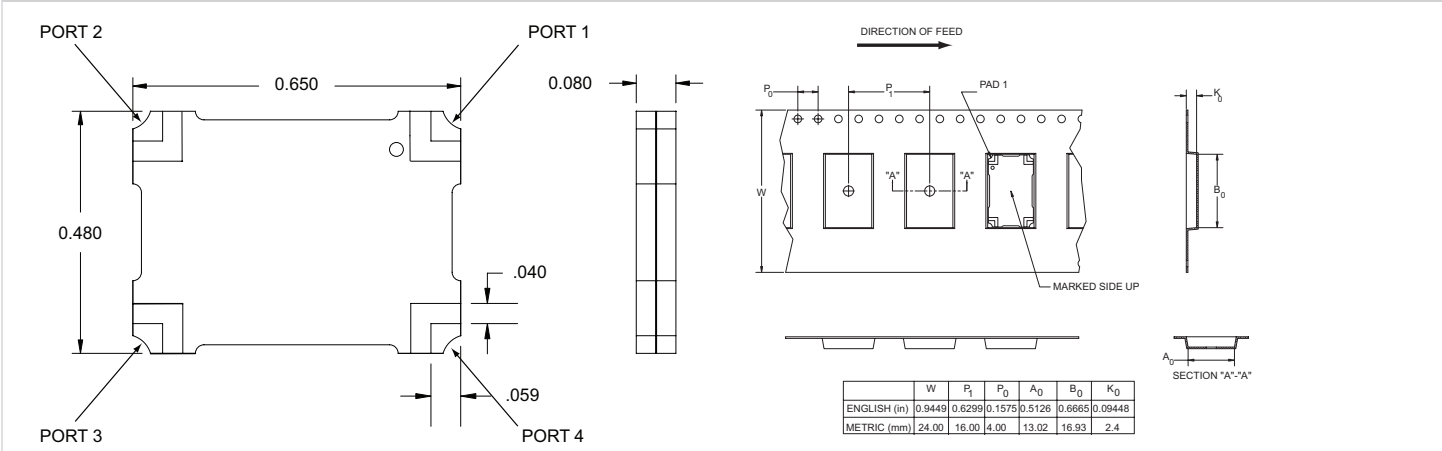
DESCRIPTION

The Multi-Mix® Zapper® QHDZ 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.

QHDZ 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.

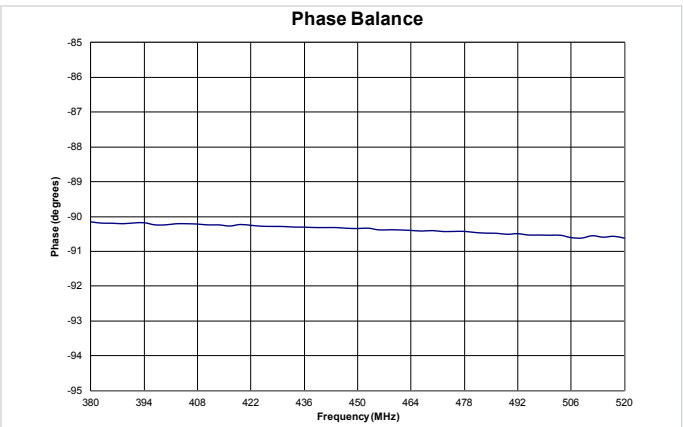
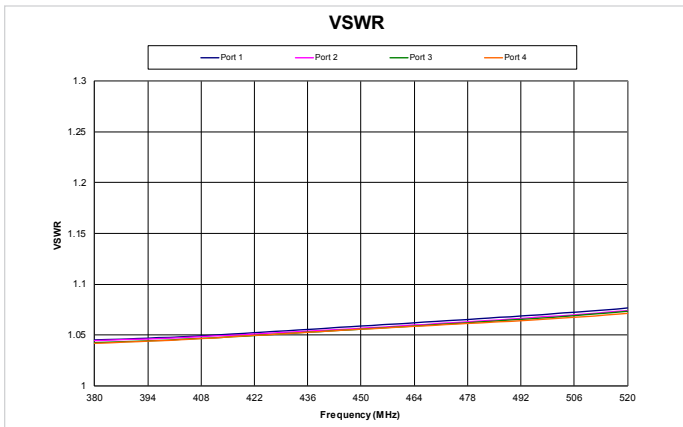
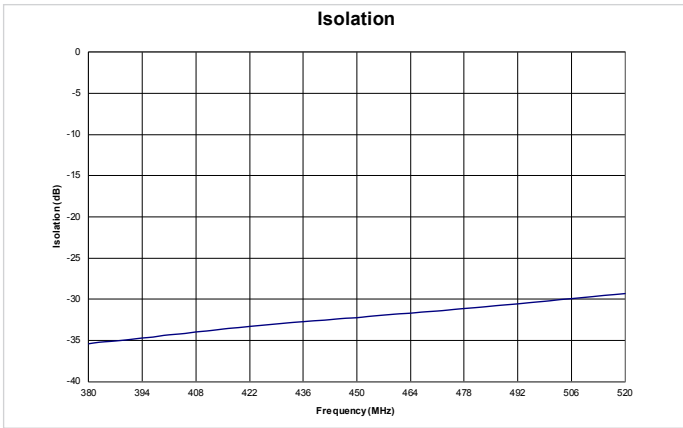
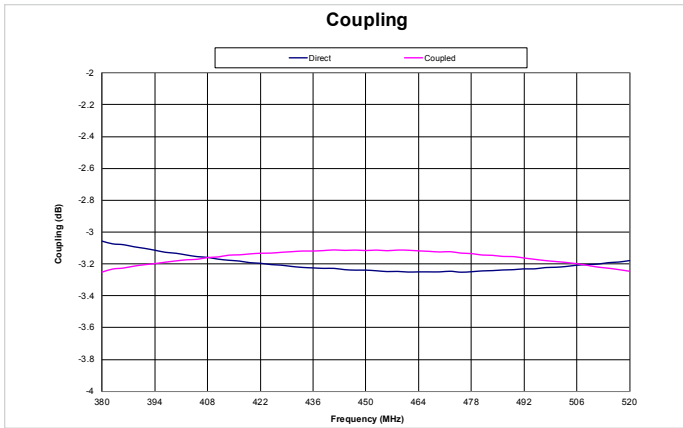
Parts, materials and processes are in accordance with Merrimac document CENG-0001 "Standard Design Requirements for Space Qualified Devices".

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

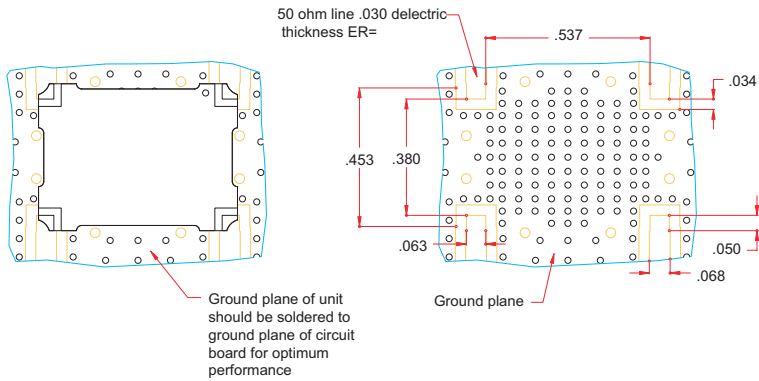


QUAD HYBRID - QHDZ-2N-0.45G SQ

PERFORMANCE DATA



MOUNTING GUIDELINES



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

