

QUAD HYBRID - QHDZ-2Z-1.9G

TECHNICAL FEATURE

FEATURES

- 1.7 - 2.0 GHz
- High Power - 25 Watts CW
- Low Loss
- Low VSWR
- Surface Mount
- Tape & Reel



RoHS Compliant

PERFORMANCE

Frequency Range.....	1.7 - 2.0 GHz
Isolation.....	20 dB min.
Insertion Loss.....	0.30 dB max.
VSWR.....	1.30:1 max.
Amplitude Balance.....	±0.3 dB max.
Phase Balance.....	90 ± 3° max.
Input Power.....	25 watts max.
Size.....	0.175 x 0.175 x 0.066 inches
Weight.....	0.002 oz.
RF Interface.....	Surface mount
Operating Temperature Range.....	-55 to +95°C

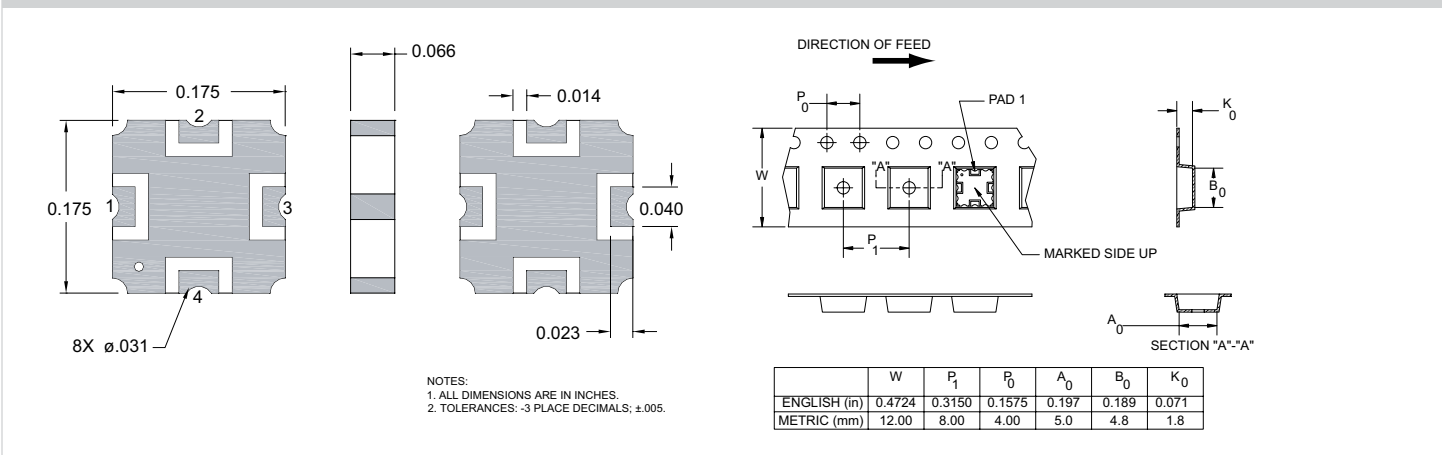
DESCRIPTION

The Multi-Mix® PICO Zapper® QHDZ-Z series provides a 3 dB, quadrature coupler with low insertion loss, high isolation, and high power handling in a small outline. Accurate phase and amplitude balance make them ideal for applications involving IQ networks, power amplifiers, signal distribution and processing.

The QHDZ-Z series is an easy to install SMD designed specifically for the full spectrum of wireless applications. The high stability ceramic filled PTFE dielectrics utilized in these components are compatible with common substrates such as FR-4, G-10, and polyamide. The wrap around ground plane provides excellent EM shielding.

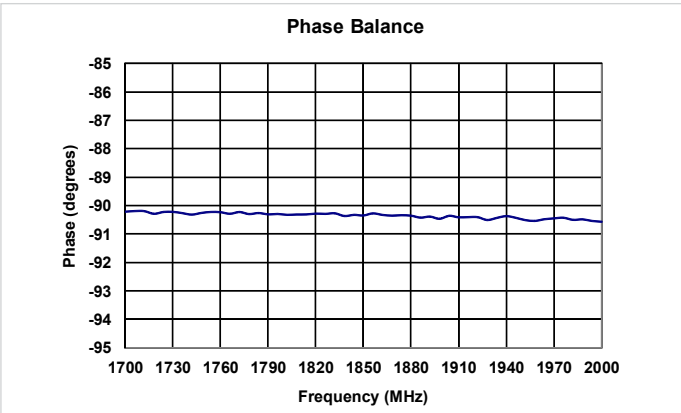
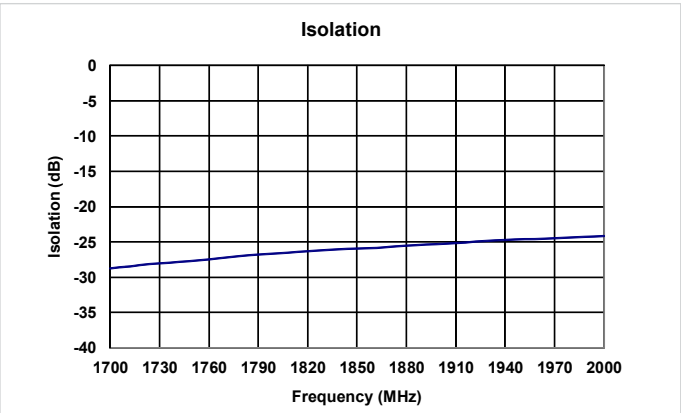
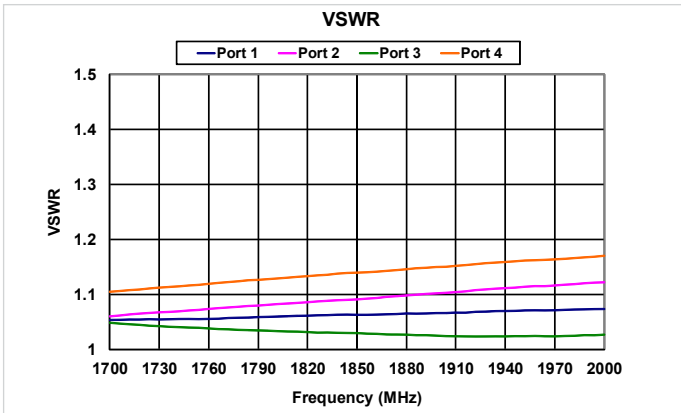
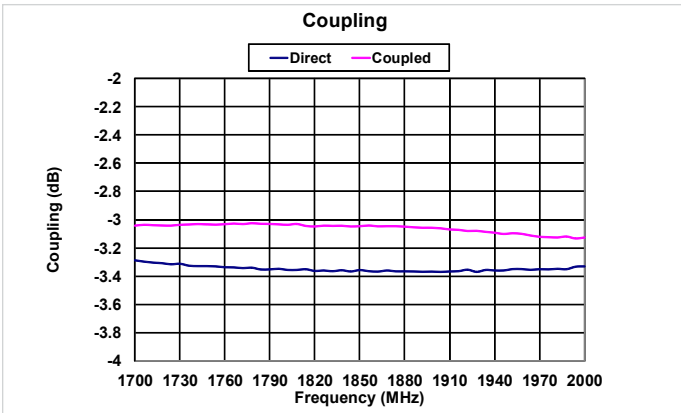
Beginning 05/02/13, individual units will not be marked, but tape and reel packaging will include the Merrimac part # and date code. Individual units will have an index mark etched as shown on the data sheets.

PACKAGE OUTLINE / TAPE & REEL ORIENTATION

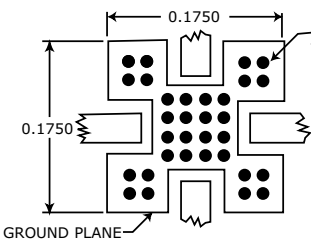


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PERFORMANCE DATA



MOUNTING GUIDELINES



PLATED THROUGH HOLES TO GROUND PLANE

Substrate Material = Rogers RO4003; 0.020" Thickness;
1 oz. Electrodeposited Copper Feed Transmission Lines = Grounded CPW;
Line Width = 0.039" Line-Ground Spacing = 0.015"

TRUTH TABLE

	1	2	3	4
1	In	0	Isolated	-90
2	0	In	-90	Isolated
3	Isolated	-90	In	0
4	-90	Isolated	0	In