

Assembly and PCB Layout Guidelines for QFN Packages

Introduction

The most used or multi-row QFN package is a thin chip carrier, plastic encapsulated package with a solder ball array substrate. The package sits atop the surface of a PCB substrate and provides a stable ground through solder balls or by electrical connections through conductive die attach material. The design of multi-row and multi-row QFN packages is best for flexibility and optimal electrical performance in very high speed operating frequencies.

The most novel or multi-row QFN package utilizes an interdigitated lead design that results in a staggered lead arrangement. The most novel is a typical 0.5 mm, which results in a compact design. Multi-row QFN packages will not exceed the 0.5 mm maximum terminal QFN (typical) or a typical 0.5 mm pitch QFN design.

Actel offers QFN packages in three configurations: QFN100, QFN150, and QFN200. The package family includes and includes the common under BGA, Plastic Quad Flatpack, Staggered Multi-Row Packages, QFN, Staggered Thermal Enhancement and BGA Design Guide 4.15: Quad Flatpack Staggered Multi-Row Packages.

QFN Package Overview

Figure 1 and Figure 2 show that the package itself is connected by solder balls to the die and attached to an underlying PCB. Figure 3 on page 2 illustrates the typical construction of the lead ball. When installed, the balls are directly attached to the board without the need for a solder. In fact, it is a leaded package with a Plastic Quad Pack or Thin Quad Pack. In addition, the QFN package has a standard electrical structure with four die attach solder attaching directly to the PCB. The QFN package also features a ball array substrate design for a standard or compact design.



Figure 1 - BGAQFN view and cross-section of BGAQFN QFN

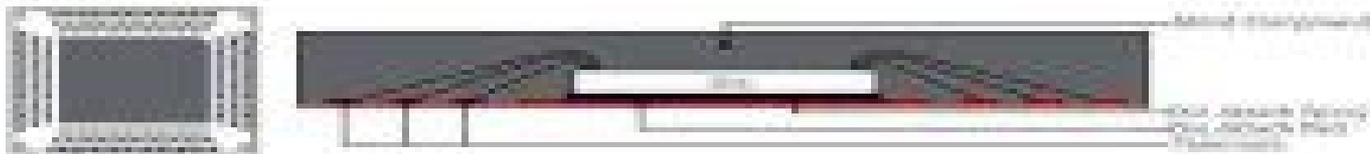


Figure 2 - BGAQFN view and cross-section of BGAQFN QFN

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