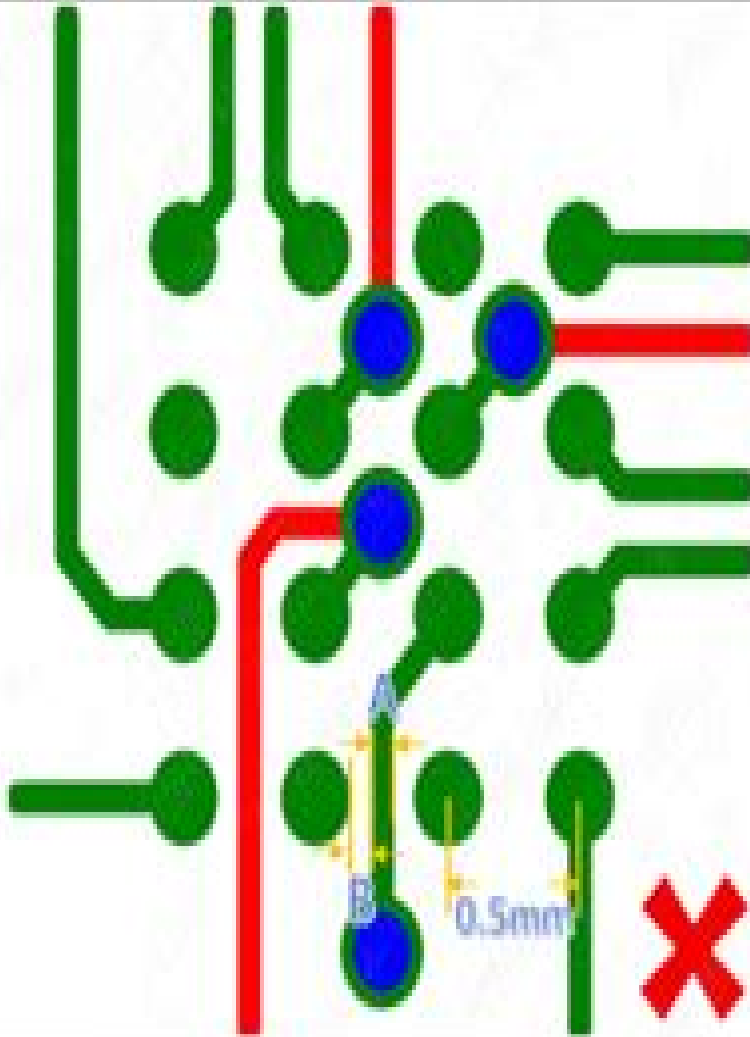
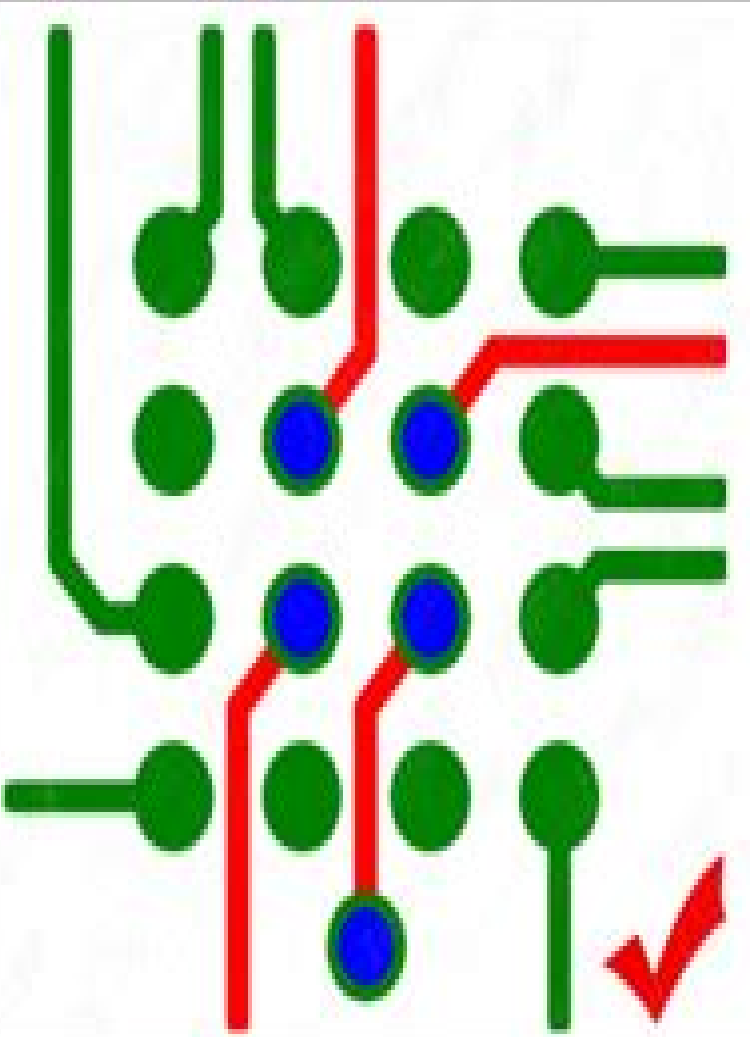


Type	Conventional BGA	Via-in-Pad BGA
Example Layout		
Details	Since the minimum trace width/spacing (A/B) of multilayer boards are both 0.09 mm, the minimum spacing between two BGA pads needs to be 0.27 mm. This means that a 0.5 mm pitch BGA footprint is not possible, since the minimum pad size would be 0.25 mm, so the pad spacing would be only 0.25 mm.	Optimized solution: Design the BGA pads with a size of 0.25 mm. Use via-in-pad with inner/outer diameter: 0.15/0.25 mm. 0.09 mm traces can be routed on the inner layers between via, since via do not have pads on inner-layers.

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BGA Breakouts and Routing Charles Pfeil, 2010-05-13 This book is for PCB designers who are designing boards with multiple very large Ball Grid Array BGA packages. It explores the impact of dense BGAs with high pin count on PCB design and provides solutions for the inherent design challenges. Though you may not yet have been confronted with the difficulties of routing BGAs and the impact on fabrication costs and signal integrity, this book will reveal these potential pitfalls as well as methods to mitigate these problems. Ball Grid Array Technology John H. Lau, 1995 A summary of progress in ball grid array BGA packaging technology for professionals in BGA research and development and for manufacturers researching BGA for their interconnect systems. Discusses economic design, material process and quality issues and describes techniques for processing substrates, routing PCB, assembling CBGA, PBGA and TBGA packages and inspection of BGA PCB assemblies. Includes treatment of BGA industry infrastructure and an electronic packaging glossary. Contains bandw photos and diagrams. Annotation copyright by Book News Inc, Portland, OR. *IPC-7095E Design and Assembly Process Guidance for Ball Grid Arrays (BGAs)* IPC International, 2024-04-30 **Design and Assembly Process Implementation for BGAs** IPC - Association Connecting Electronics Industries, 2008 This document describes the design and assembly challenges for implementing Ball Grid Array BGA and fine pitch BGA FBGA technology. The effect of BGA and FBGA on current technology and component types is also addressed. This document focuses on critical inspection, repair and reliability issues associated with BGAs. IPC-7095E-CN Design and Assembly Process Guidance for Ball Grid Arrays (BGAs) (Chinese) IPC International, 2025-08-31

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