


- 
- A detailed, high-magnification photograph of a microchip assembly. The chip is a dark, rectangular silicon die with a grid of gold-colored bumps (solder balls) on its surface. It is mounted on a copper-colored printed circuit board (PCB) with visible gold wire bonds connecting the chip to the board. The background is dark and out of focus.
- The first comprehensive application guide to the newest low cost flip chip technologies
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# Low Cost Flip Chip Technologies

*for*

DCA, WLCSP, and  
PBGA Assemblies

**JOHN H. LAU**

# Low Cost Flip Chip Technologies For Dca Wlcsp And Pbga Assemblies

**Marcelo Antonio Pavanello, Cor  
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