



An Introduction to Electronics Systems Packaging

Video Course -2012

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Quiz for Module 5

**CAD for Printed Wiring Boards**

Video Sequence 19-22

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1. What are the key benefits to industry by employing CAD software for PWB design?
  2. What are the basic essential components of a CAD package that you would look for?
  3. Explain briefly the terms DFM, DFR and DFT. Are they important considerations for a designer?
  4. What are three most important decisions that a designer should make when starting a design project?
  5. What is meant by a 'netlist'? In what ways is it important for a designer and a design process?
  6. What is meant by 'mitring'? Why do we care about it?
  7. Why should 'vias' be minimized in a design layout?
  8. What is the universal format in which all technology files are generated?
  9. List the different types of printed wiring board configurations.
  10. What is 'core' and 'prepreg'?
  11. What are the checklist items you would go through before starting a routing program for your layout?
  12. What is design rule check, DRC?
  13. When is a thermal relief pad important to be used in a design?
  14. What is an 'anti-pad'?
  15. What advantages arise by placing microvias at 45° to the footprints of a BGA package? Does it help in achieving high routing density?
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