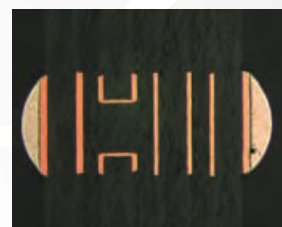
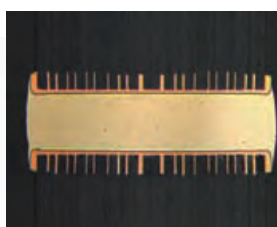
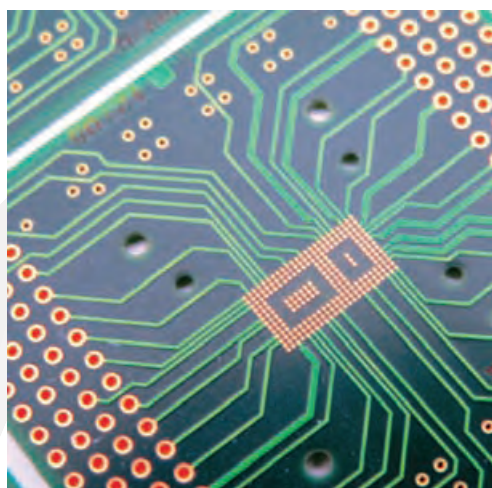
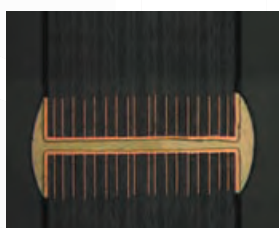


ALWAYS CLOSE TO YOUR NEEDS!



Double-sided PCBs

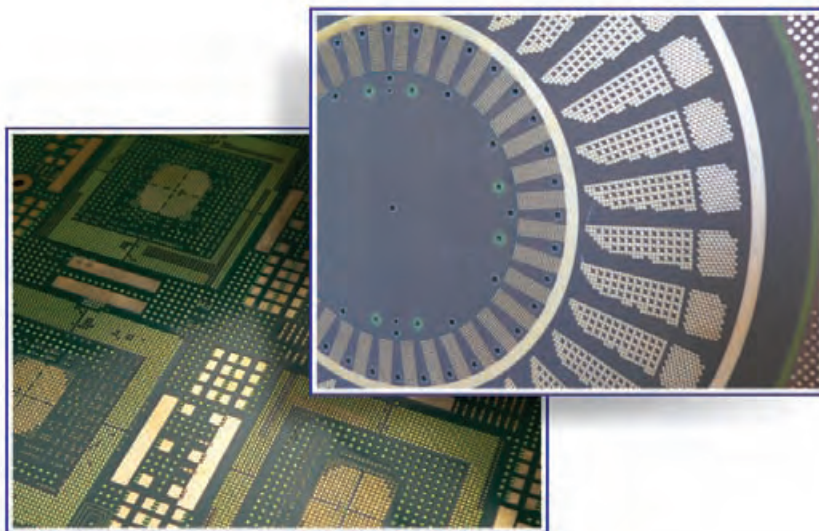


## Double-sided PCBs

**Production plants:**  
Elco China, Elco Europe (Spain)

**Description:**

*Double-sided PCBs are used in many electronic device; they are composed by two layers, interconnected with metallized holes*



**Technical Data:**

**Base Material**

FR4 Std Tg 135°  
FR4 Medium Tg > 150°  
FR4 Hi Tg > 175°  
Polyimide  
Teflon substrates  
(Special materials on request)

**Dimensions**

Maximum pcb size: 640 x 570 mm

**PCB Thickness**

Maximum pcb thickness: 6.5 mm  
Minimum pcb thickness: 0.1 mm  
Thickness tolerance:  
according to MIL Cl. II, III

**Surfaces Finishing**

- Organic copper-passivation
  - Hot air levelling (HASL)  
(depends on thickness and size)
  - Electroless nickel/gold (NiAu)
  - Electroplated nickel/gold (NiAu)
  - Tin Lead reflow
- Other surfaces on request

**Solder Masks**

- Photo-imageable solder  
(max. pcb thickness 3.5 mm)
- Peelable solder mask

**Special Printings**

- Carbon  
(contacts and resistance tracks)
- Marking print

**Track Width/Space**

Standard: 100 µm  
High Tech: 75 µm  
Next Step: 50 µm

**Drill Diameter**

(mechanical, drill-tool-diameter)  
Standard : 200 µm  
High-Tech: 150 µm  
Next step: 75 µm

**Contour Processing**

- Milled
- Scored (contour or perforation)

**Tests**

- Automatic-Optical-Inspection  
(depending on layout and surface)
- 100 % electrical test
- Special check on request
- Visual inspection

**Quality Controls**

- Guarantee of custom-designed quality standards and production according to international guidelines:
- Vision 2000 - CNES - AS9100B
- EN9100:2003/S1 - JISQ9100:2004
- UL Certified: 94V-0 up to 130°