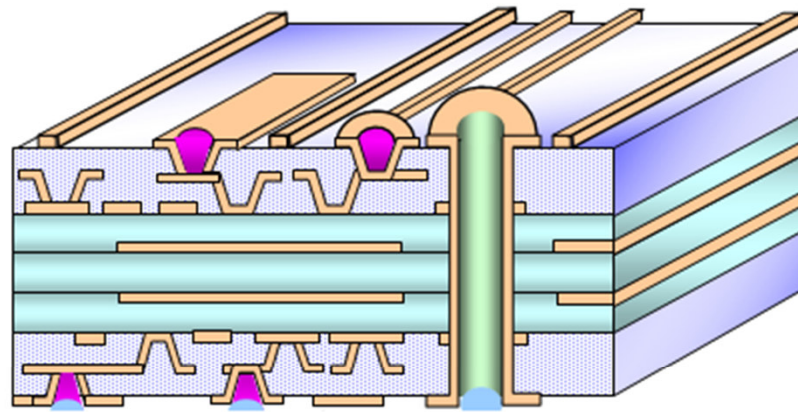




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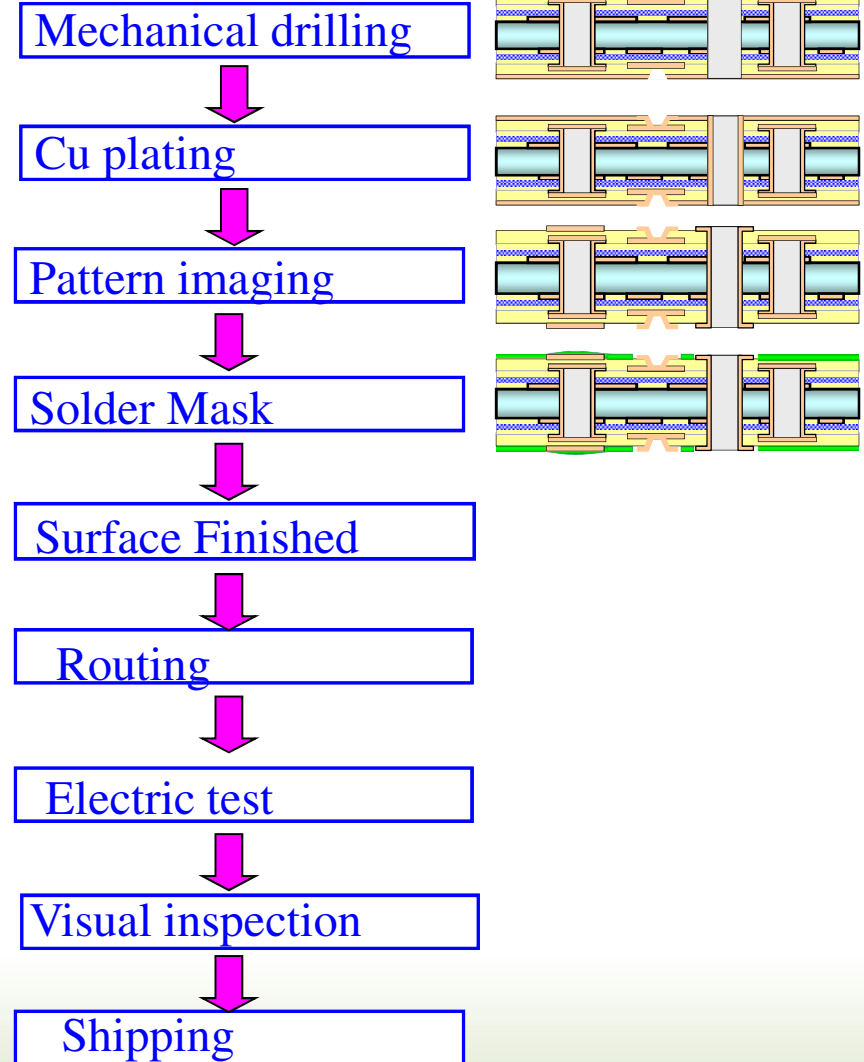
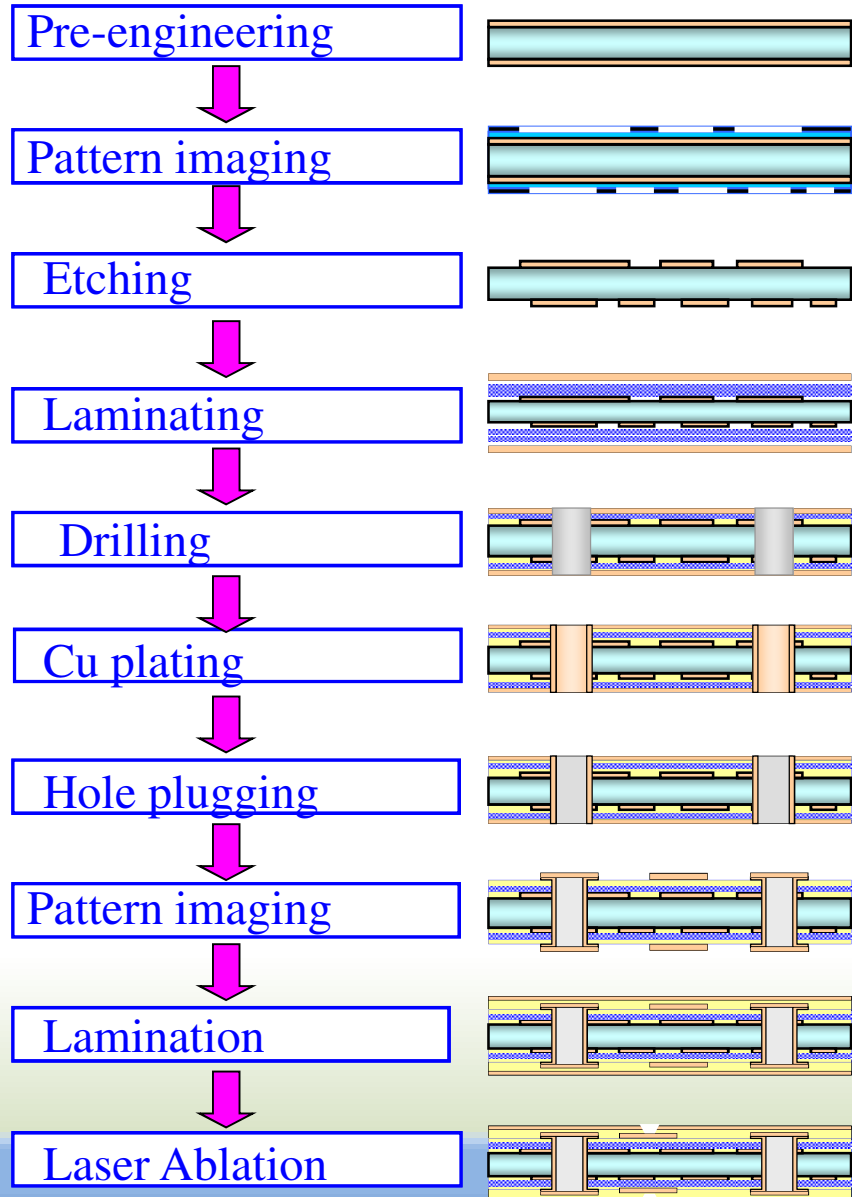
HDI Process Flow



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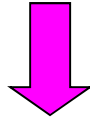


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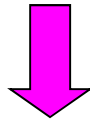
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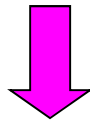
Pre-engineering



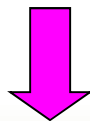
Pattern imaging



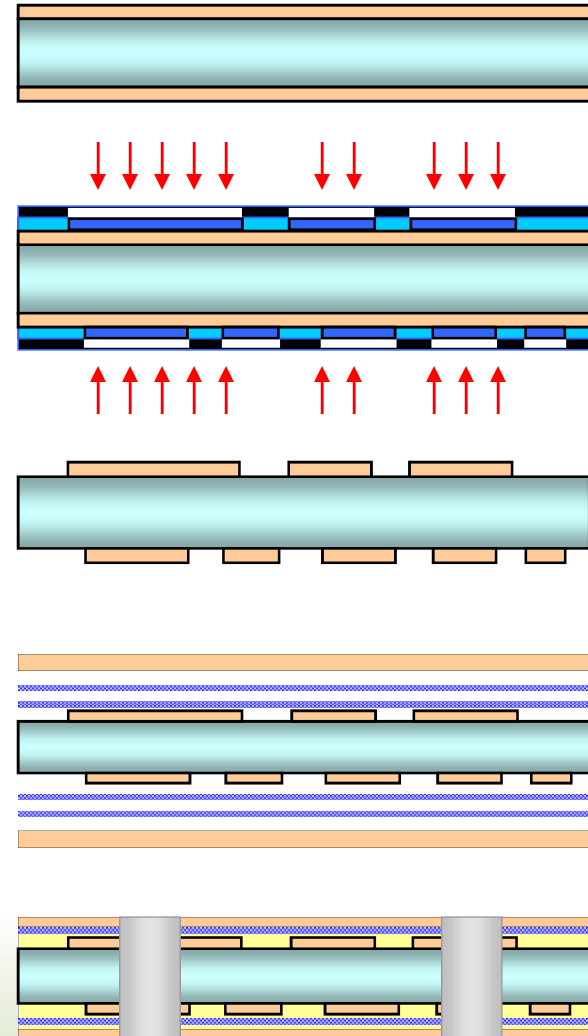
Etching



Laminating



Drilling



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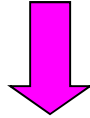


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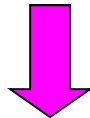
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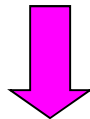
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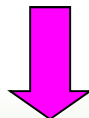
Cu plating



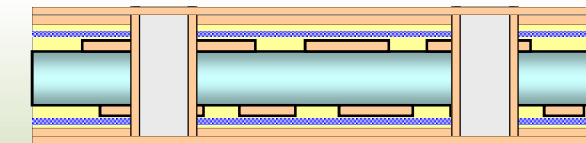
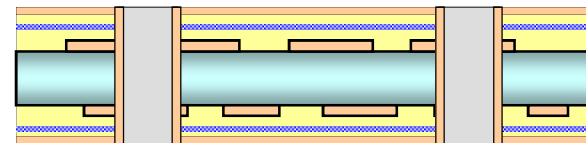
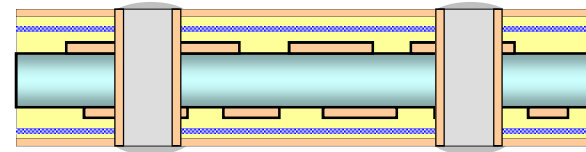
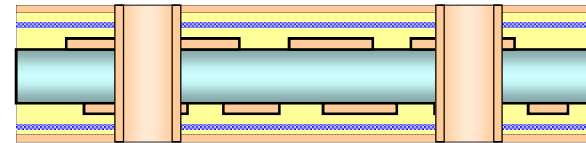
Hole plugging



Belt Sanding



Cu plating



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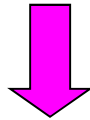


Standard Printed Circuit Board Ltd.

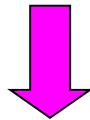
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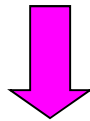
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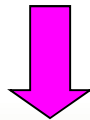
Lamination



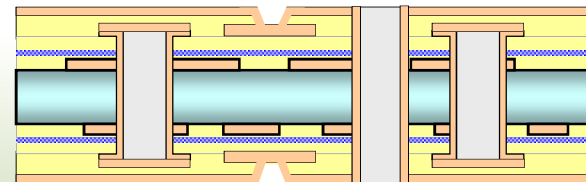
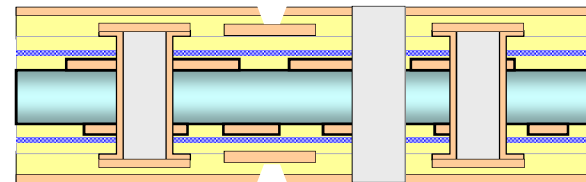
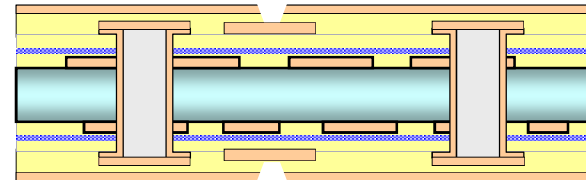
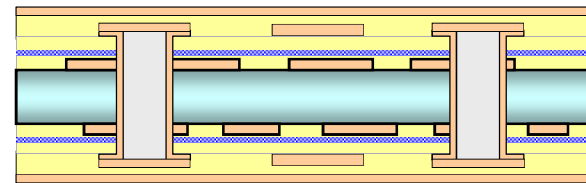
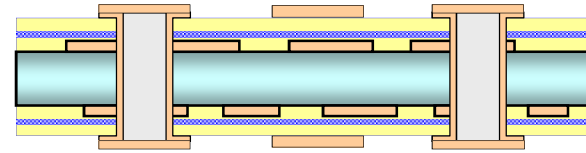
Laser Ablation



Mechanical drilling



Cu plating



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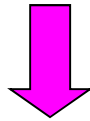


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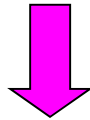
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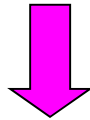
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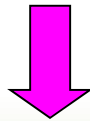
Solder Mask



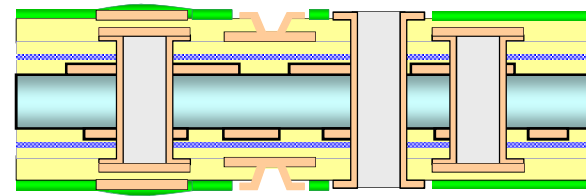
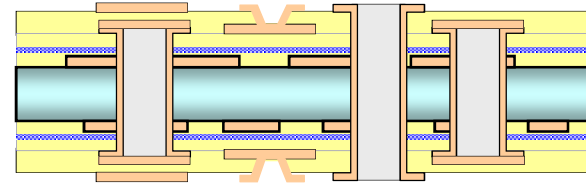
Gold plating



Routing



Electrical test



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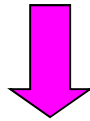


Standard Printed Circuit Board Ltd.

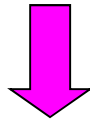
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Visual inspection



Hole counter



Shipping

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* Raw material (Thin Core,Copper,Prepreg.....)

Raw Material : FR-4 (Difuntional,Tetrafunctional)
Supplier : EMC ,Nan-Ya
Sheet size : 36''*48'' , 40''*48'' ,42''*48''
Core Thickness : 0.003'',0.004'',0.005'',0.006''
0.008'',0.010'',0.012'',0.015''
0.021'',0.031'',0.039'',0.047''
Copper Foil : 1/3 oz,1/2 oz,1.0 oz,2 oz
Prepreg type : 1080,2113,2116,1506,7628,7630

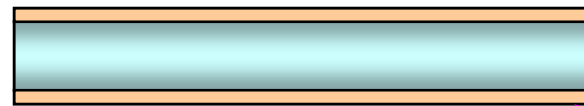


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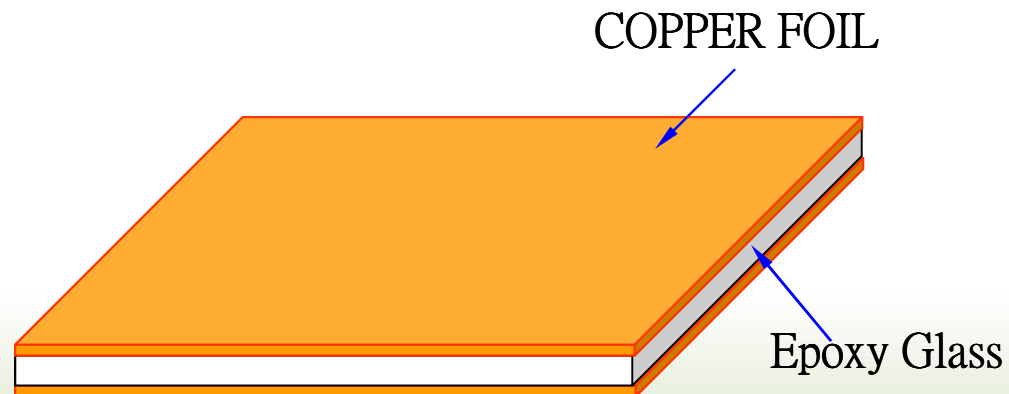
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1. Innerlayer (THIN CORE)



**Laminate
Copper Foil**

(Panel Size)



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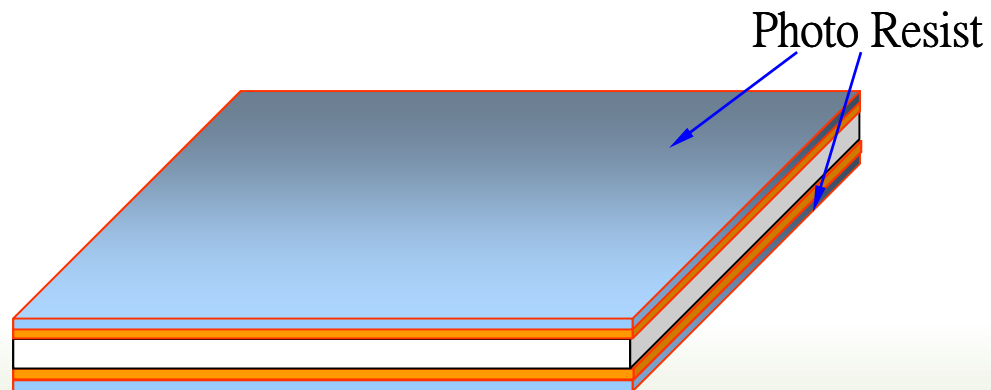
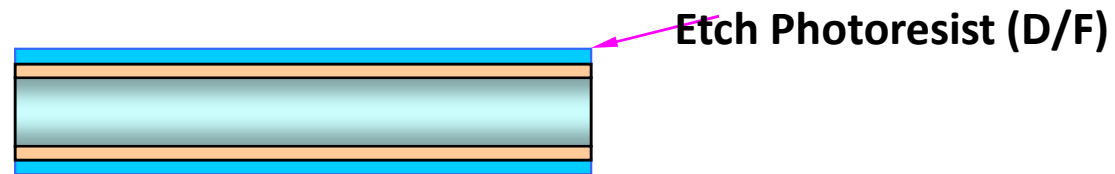


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2. Dry Film Resist Coat

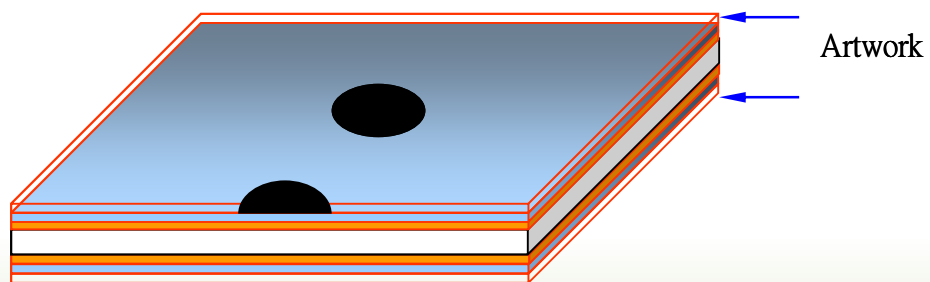
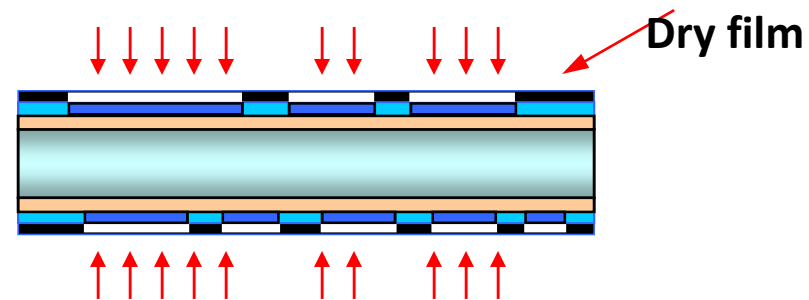


<http://www.standardpcb.com>

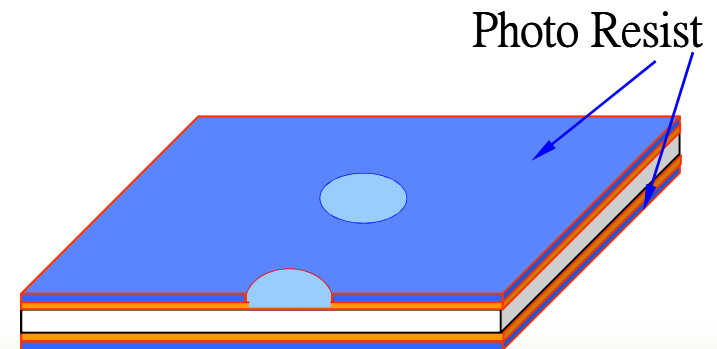
Email: info@standardpcb.com



3. Inner Artwork Expose



Before Expose



After Expose

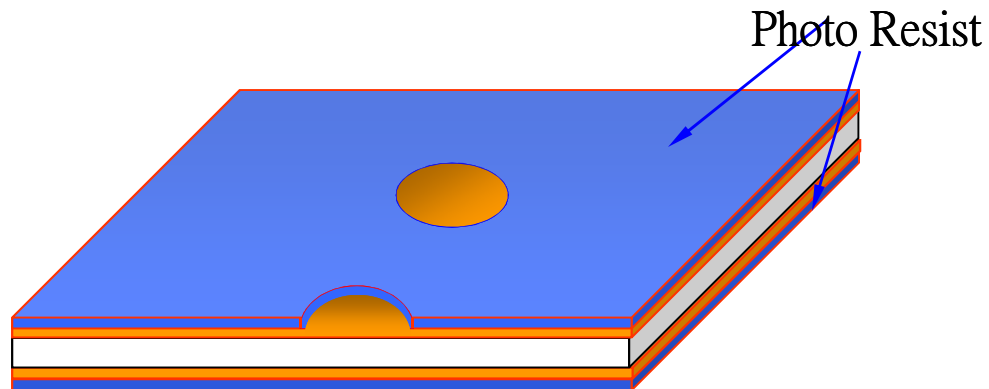
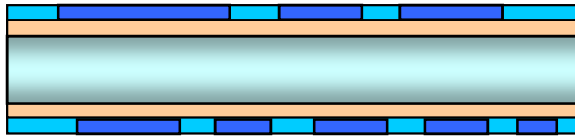


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4. Inner layer image Develop



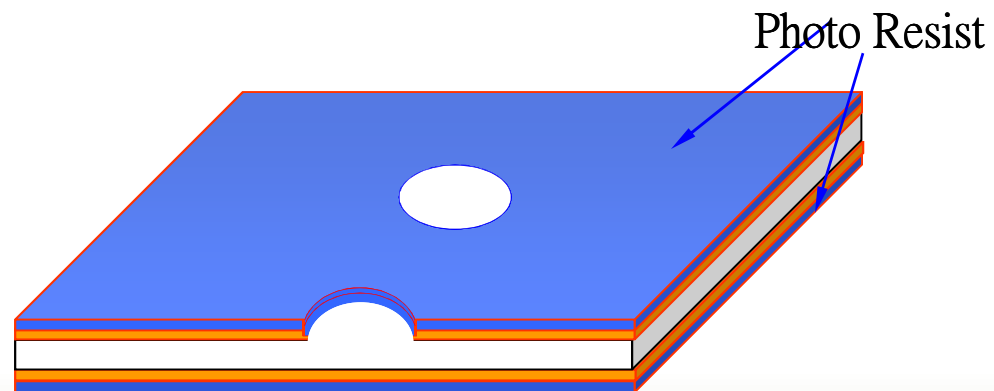
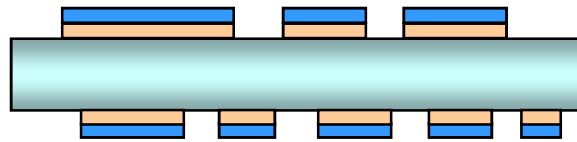


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5. Inner Layer Etch



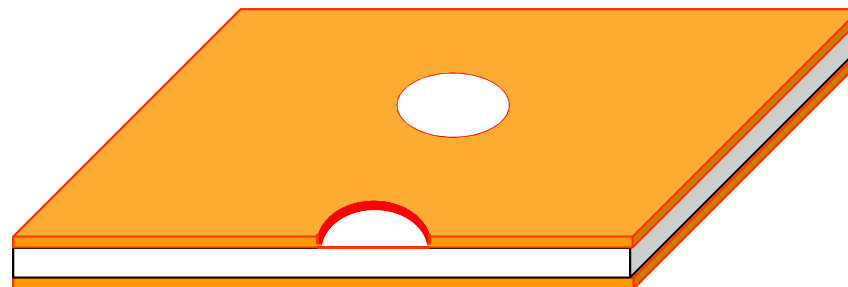
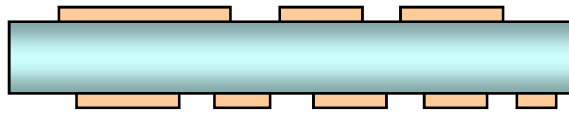


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6. Inner Layer Strip Resist



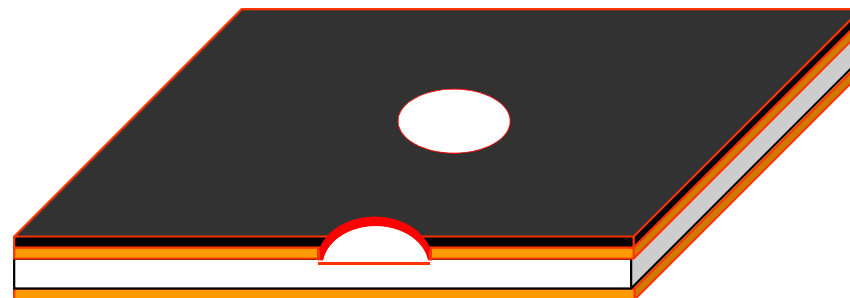
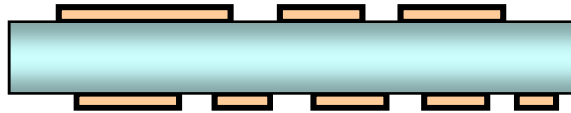


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7. Oxide Coating



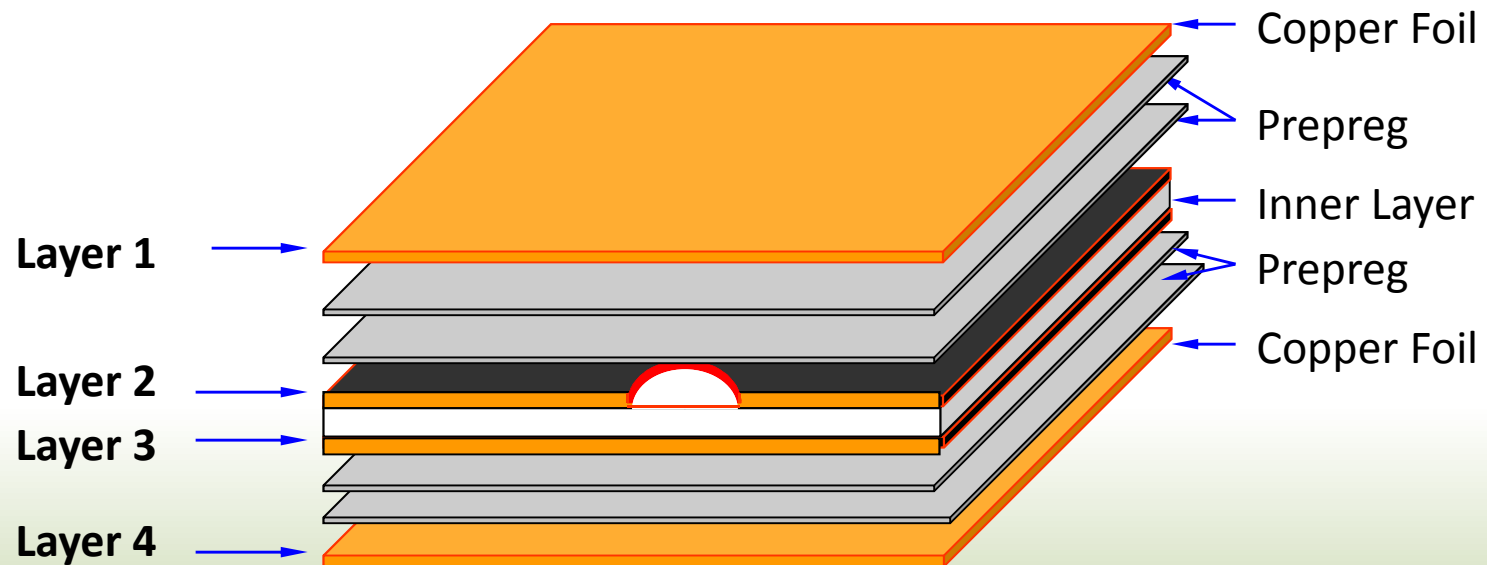
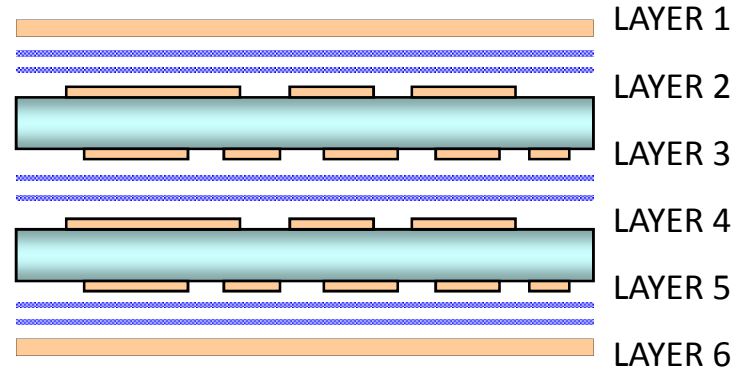


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8. Lay-up Building



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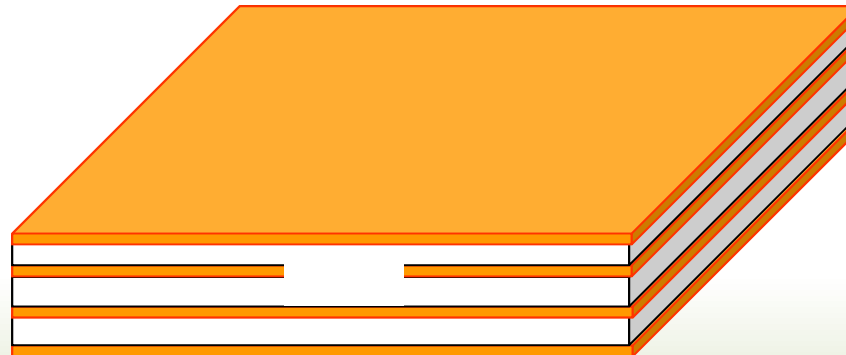
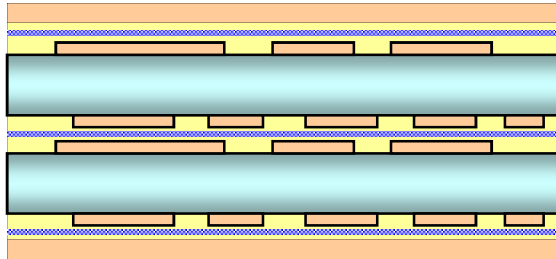


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9. Lamination



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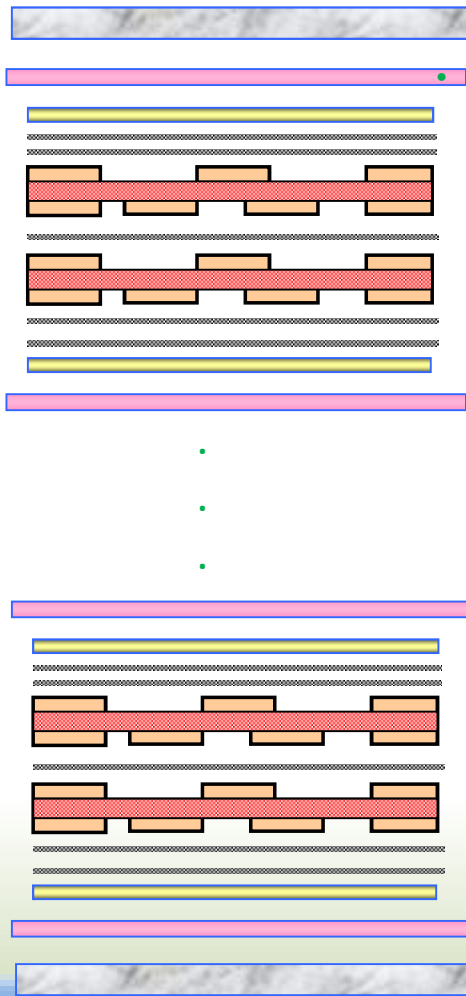
Typical of the multilayer structure of stacked plates and laminated

COMP

SOLD.

COMP

SOLD.



The hot plate press machine

Superimposed with the steel
COPPER FOIL 0.5 OZ
prepreg

Thin Core ,FR-4
prepreg

Thin Core ,FR-4
prepreg

COPPER FOIL 0.5 OZ

Superimposed with the steel

Superimposed with the steel

COPPER FOIL 0.5 OZ
prepreg

Thin Core ,FR-4
prepreg

Thin Core ,FR-4
prepreg

COPPER FOIL 0.5 OZ

Superimposed with the steel

The hot plate press machine

10-12層疊合

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Email: info@standardpcb.com

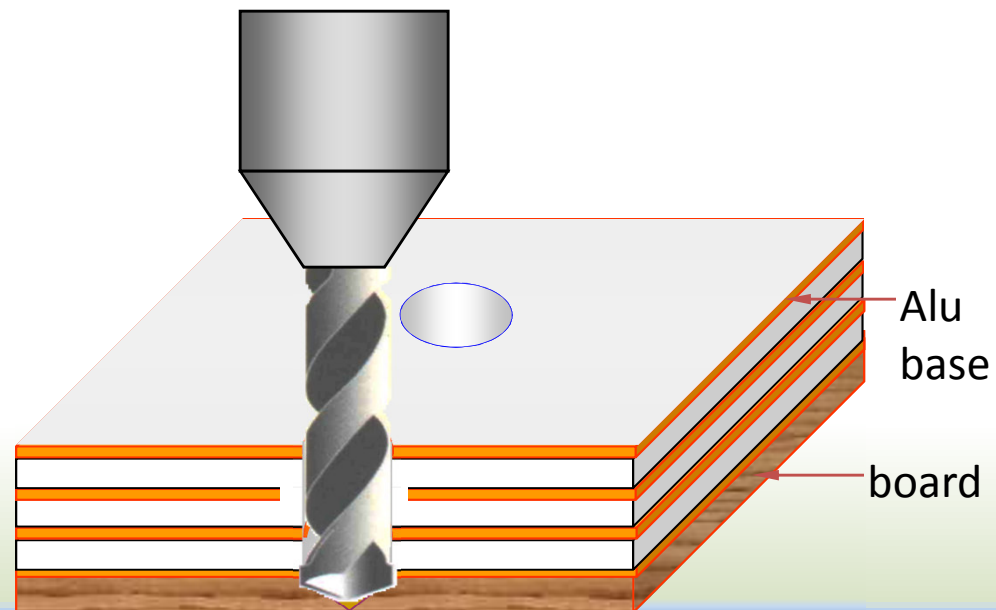
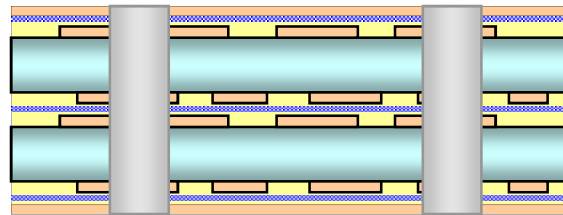


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10. NC Drilling



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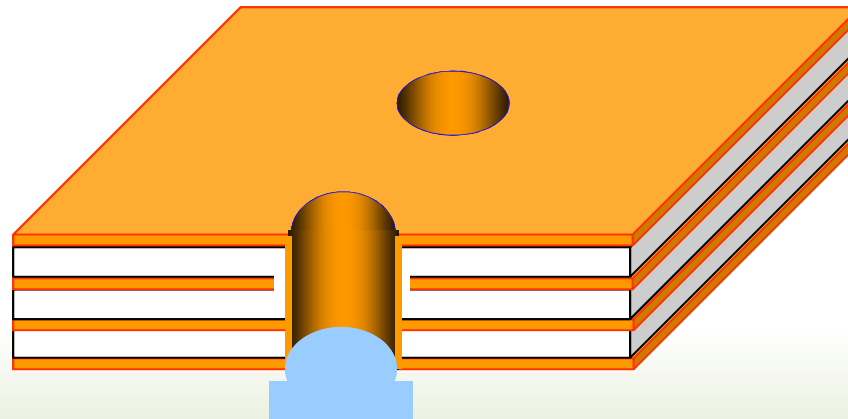
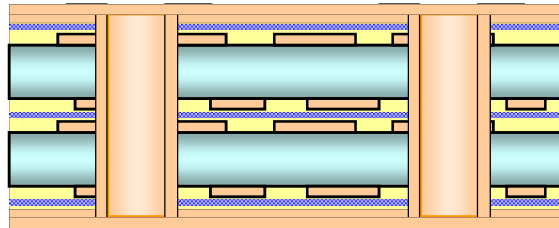


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11. Desmear & Copper Deposition



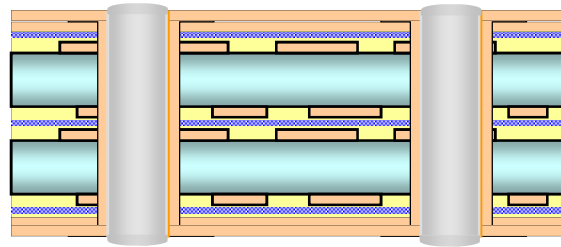


Standard Printed Circuit Board Ltd.

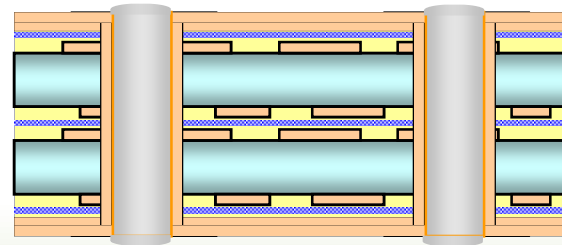
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PCB Manufacturing Specialist in China

12. Hole Plugging



13. Belt Sanding



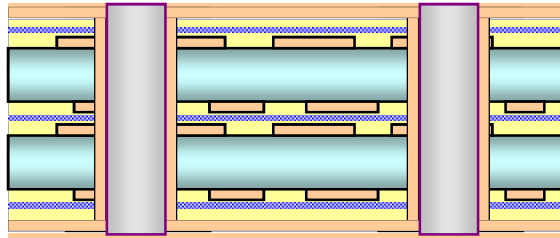


Standard Printed Circuit Board Ltd.

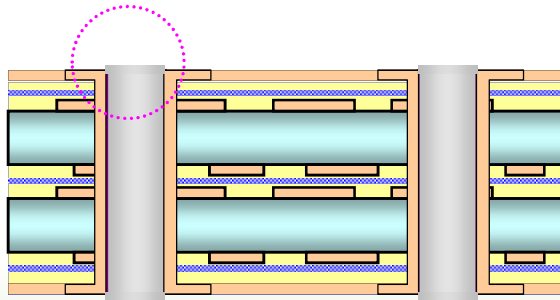
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14. Copper Reduction → Option



15. Belt Sanding → Option



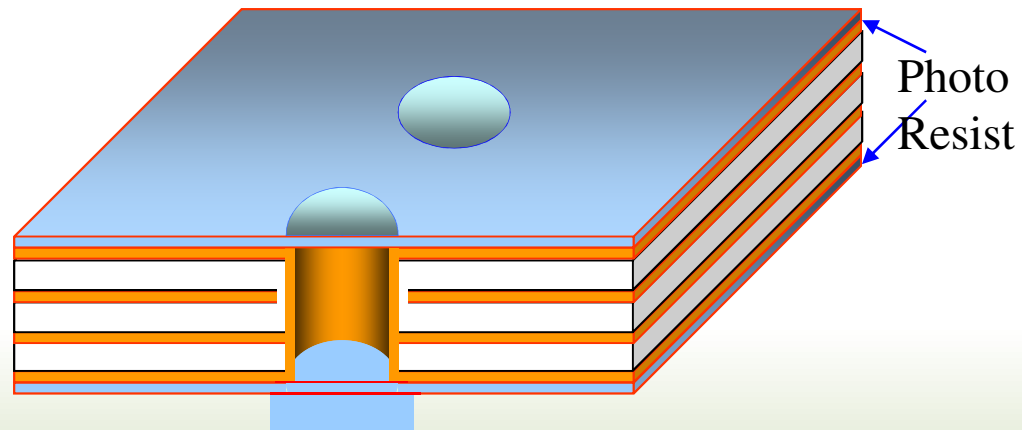
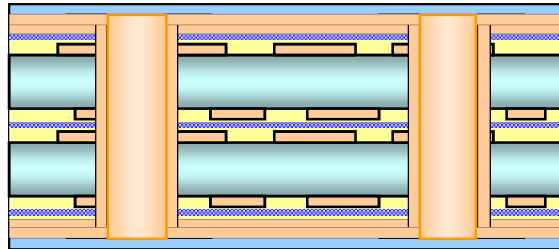


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16. Dry Film Lamination (Outer layer)



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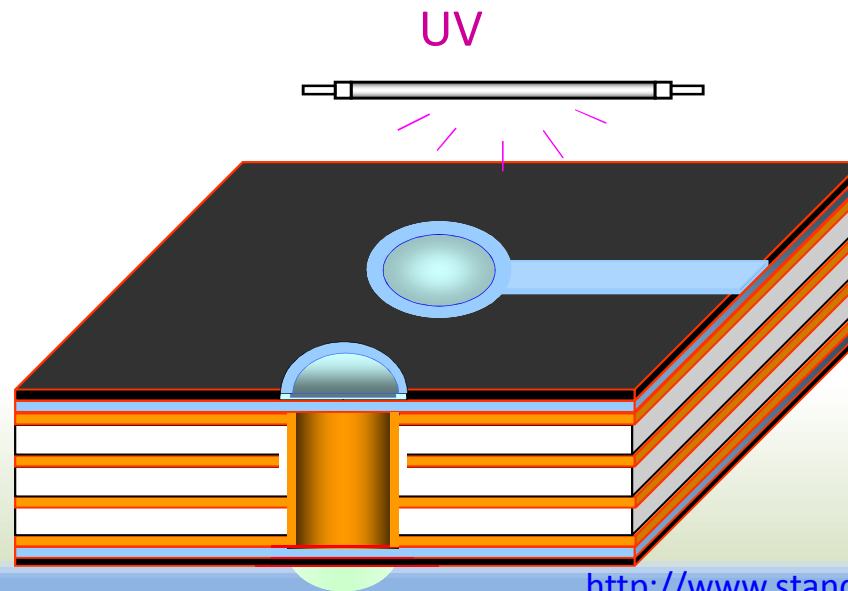
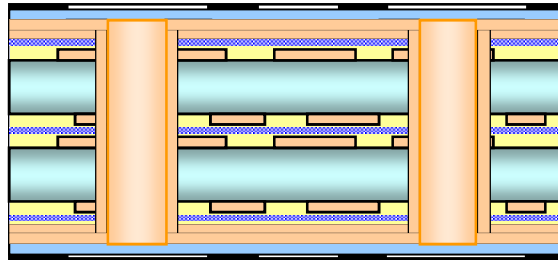


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17. Outerlayer Expose



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Email: info@standardpcb.com

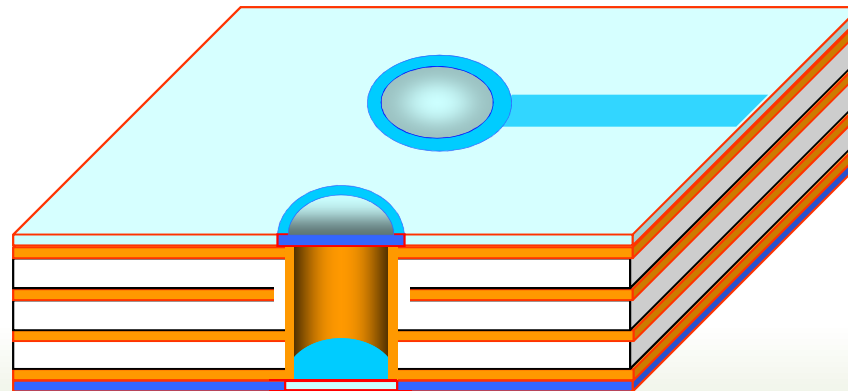
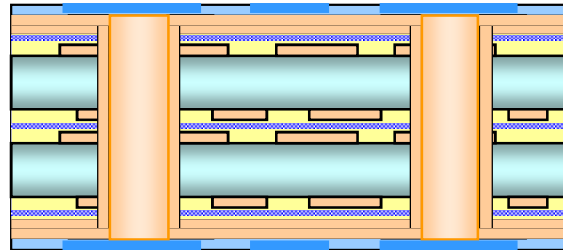


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18. After Exposed



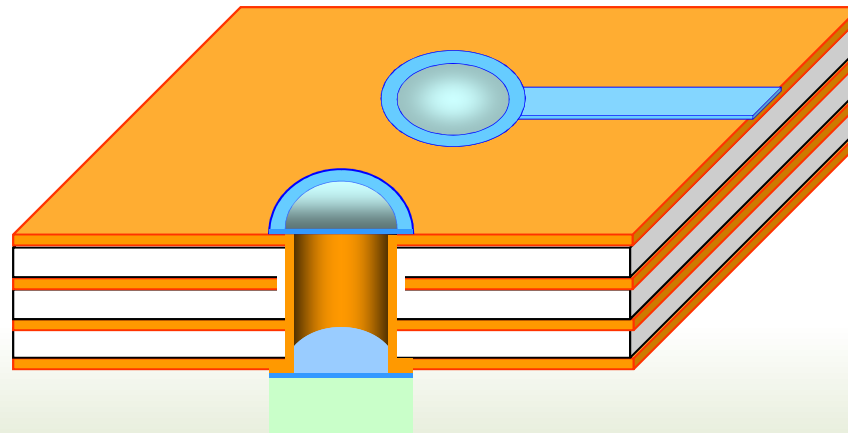
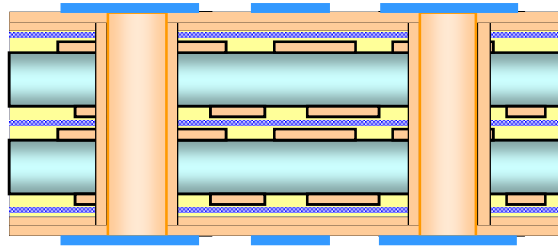


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19. Outerlayer Develop



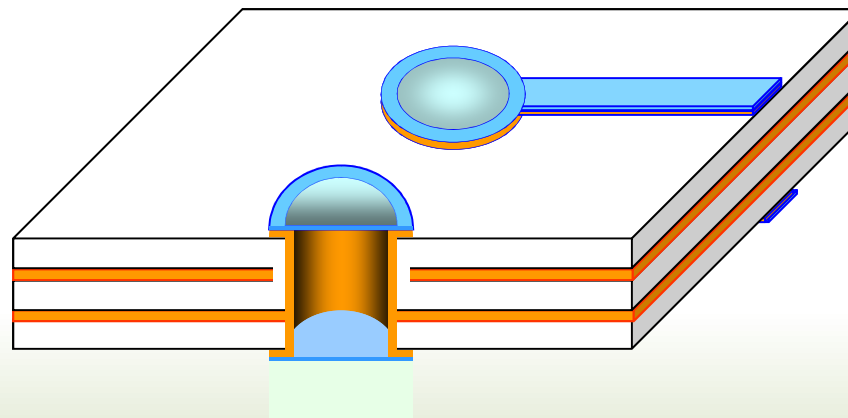
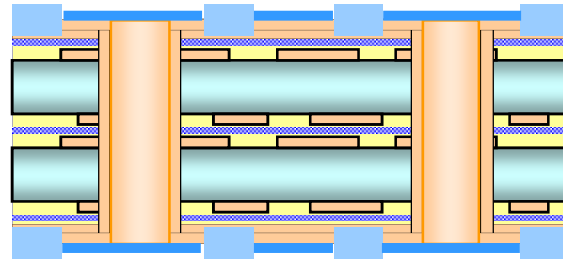


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20. Etch



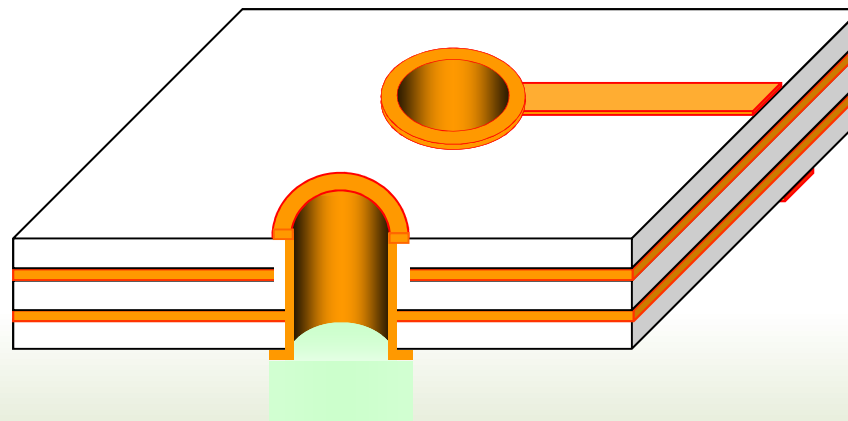
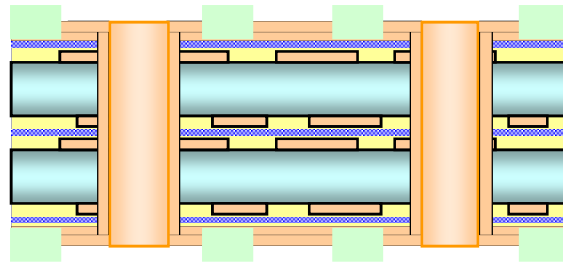


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20. Strip Resist



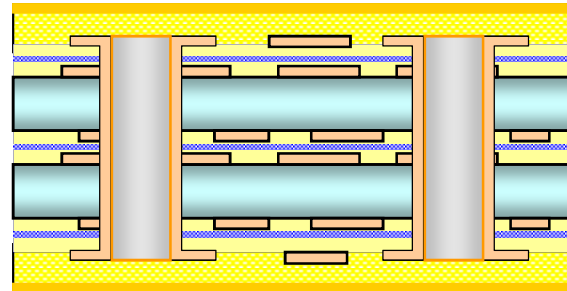


Standard Printed Circuit Board Ltd.

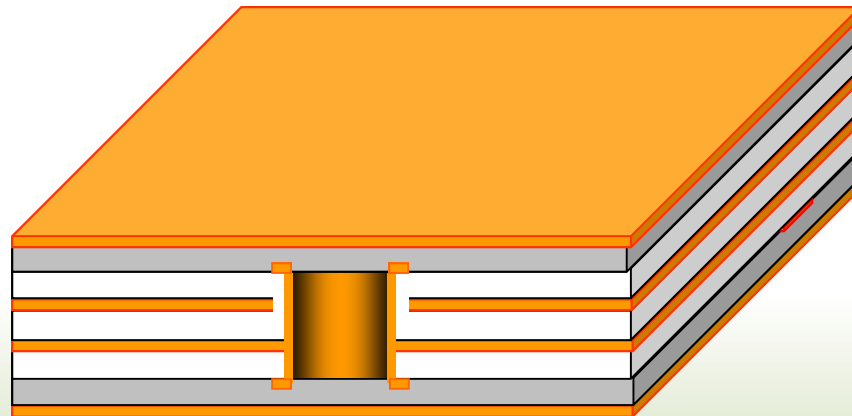
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21. Build-up Layer Lamination



RCC
(Resin Coated Copper
foil)



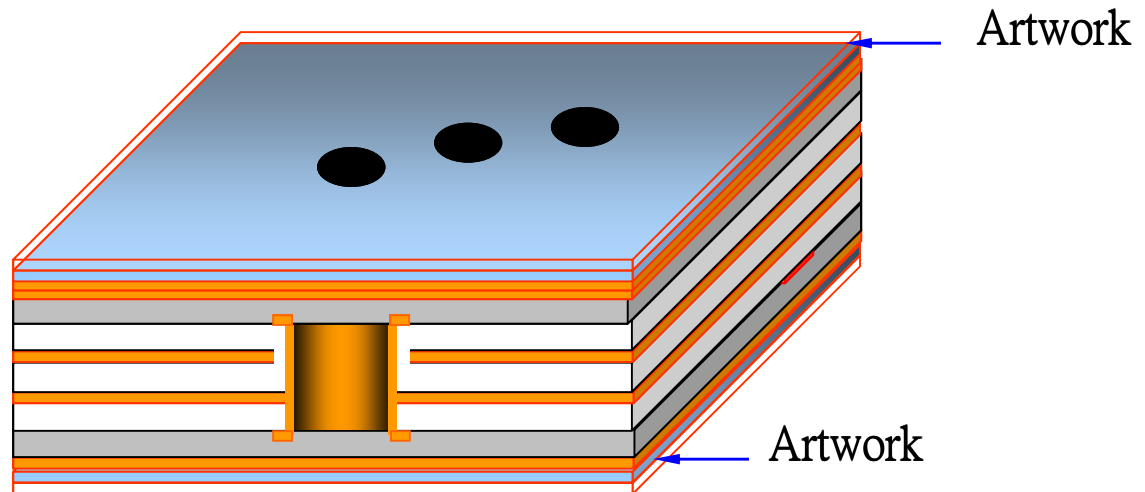
<http://www.standardpcb.com>

Email: info@standardpcb.com

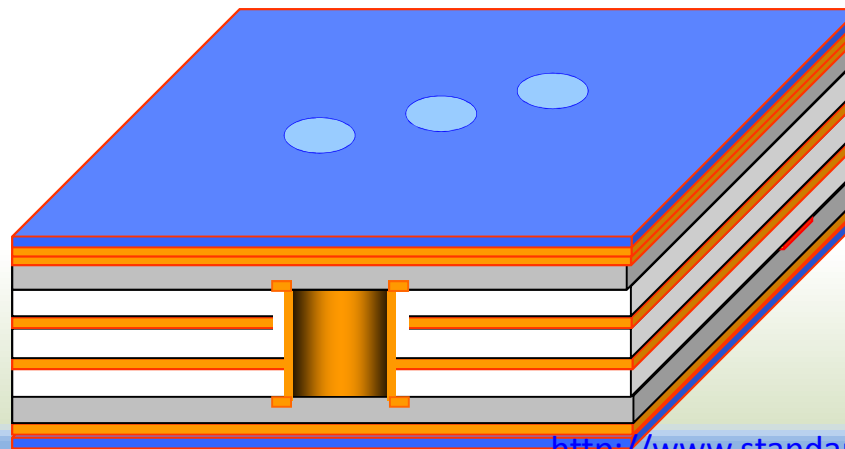


22. Conformal Mask

Before Exposure



After Exposure



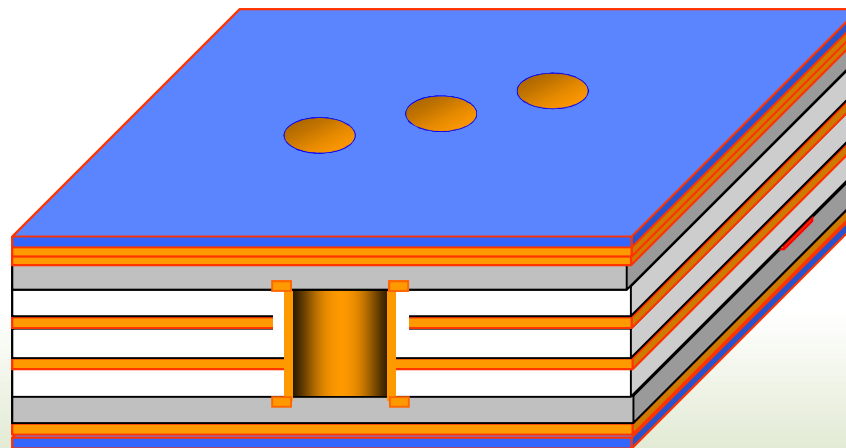
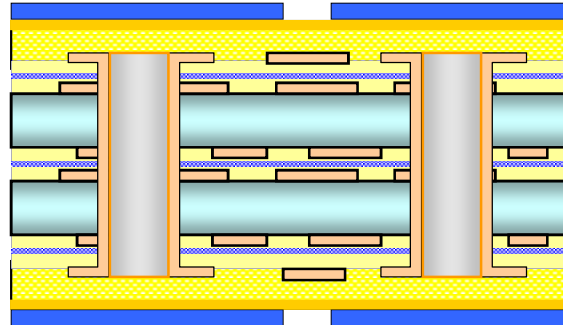


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23.Conformal Mask



<http://www.standardpcb.com>

Email: info@standardpcb.com

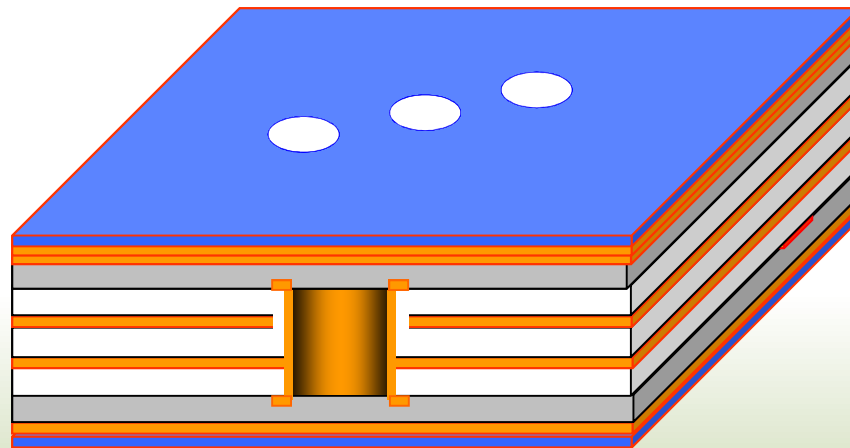
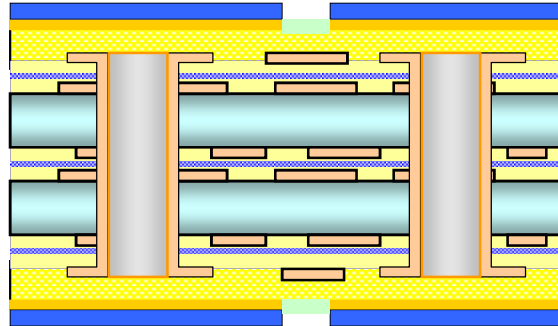


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24. Conformal Mask (for Etching)



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Email: info@standardpcb.com

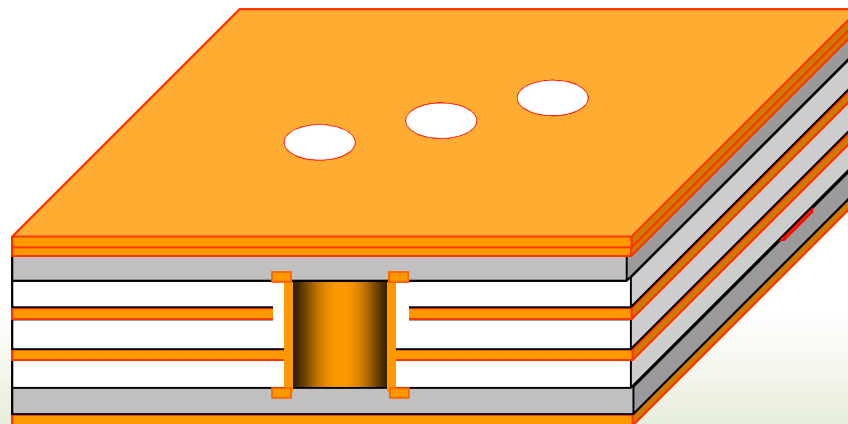
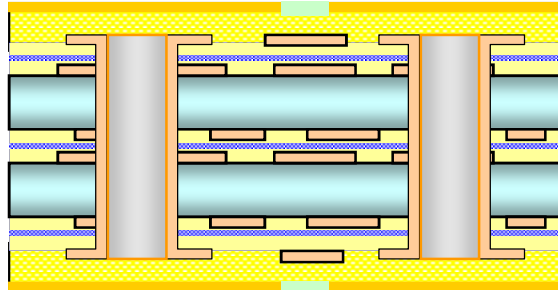


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25. Conformal Mask



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Email: info@standardpcb.com

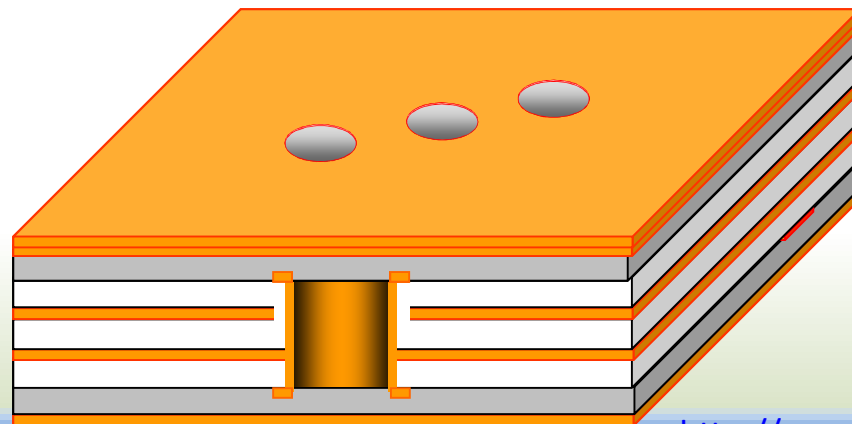
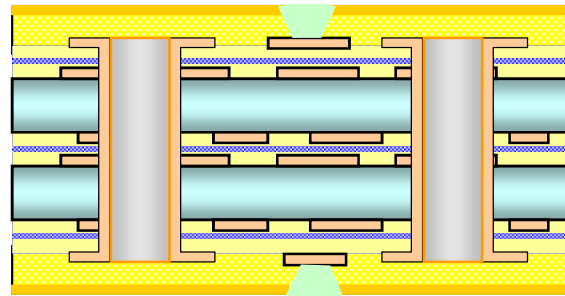


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26. Laser Ablation and NC Drilling



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Email: info@standardpcb.com

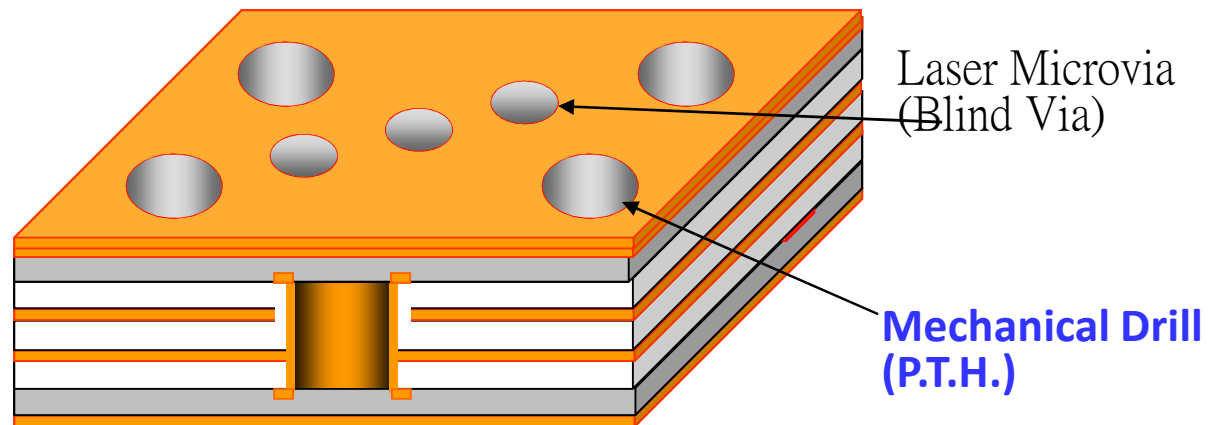


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27. Mechanical Drill



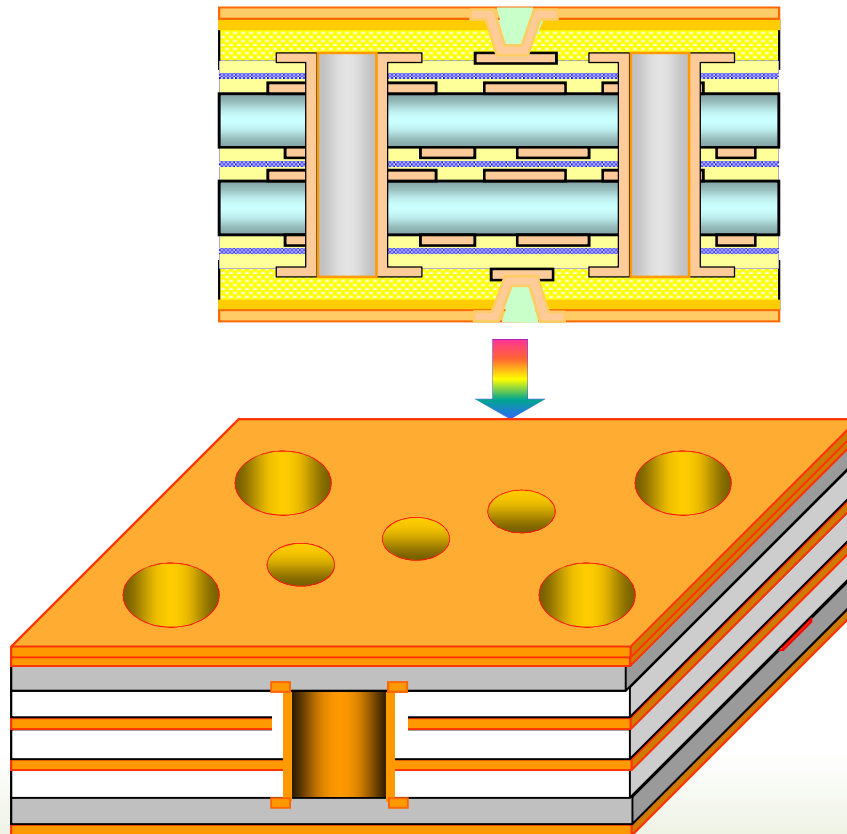


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28. Desmear & Copper Deposition



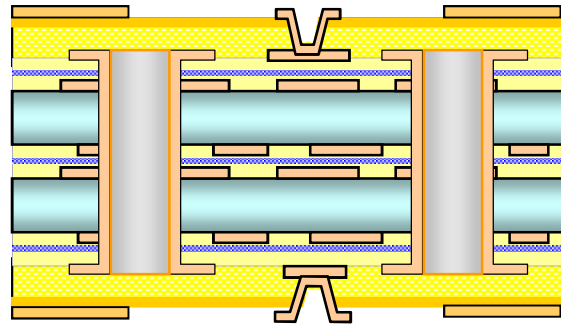


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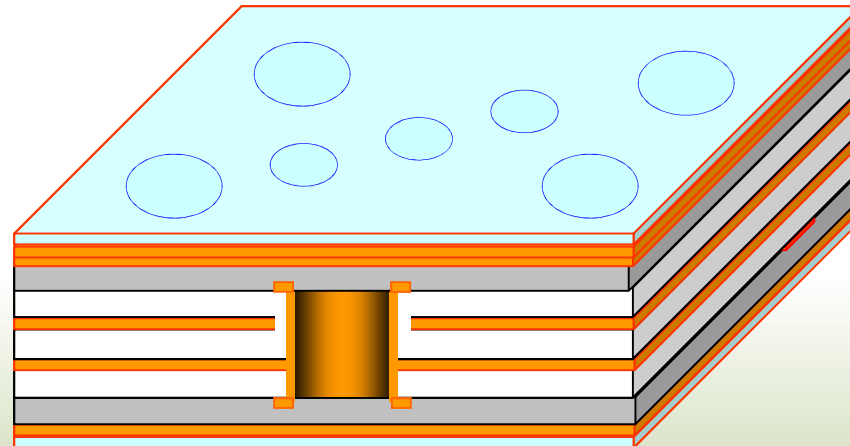
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29. Outerlayer Pattern imaging)



Dry Film Lamination)



<http://www.standardpcb.com>

Email: info@standardpcb.com

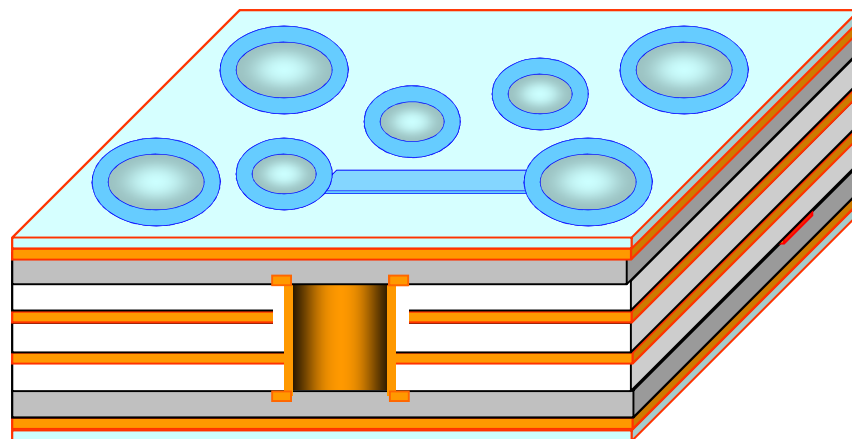


Standard Printed Circuit Board Ltd.

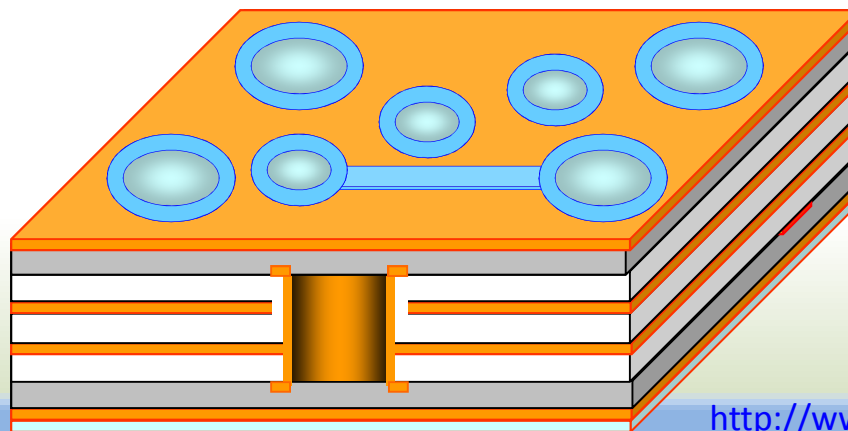
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Outerlayer Exposure



Dry Film Developing



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Email: info@standardpcb.com

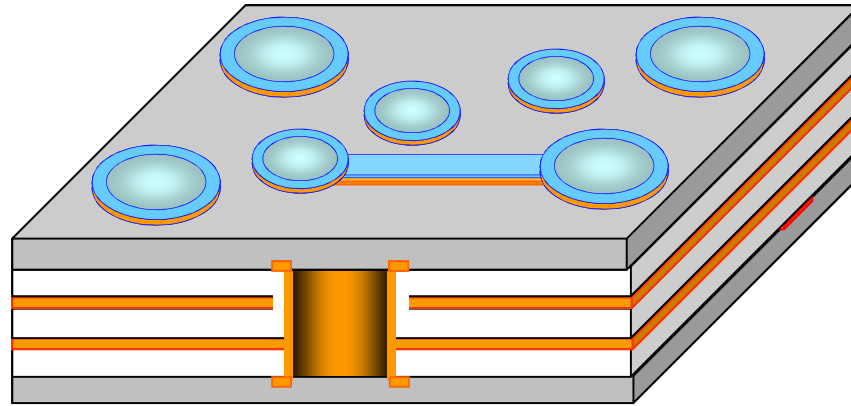


Standard Printed Circuit Board Ltd.

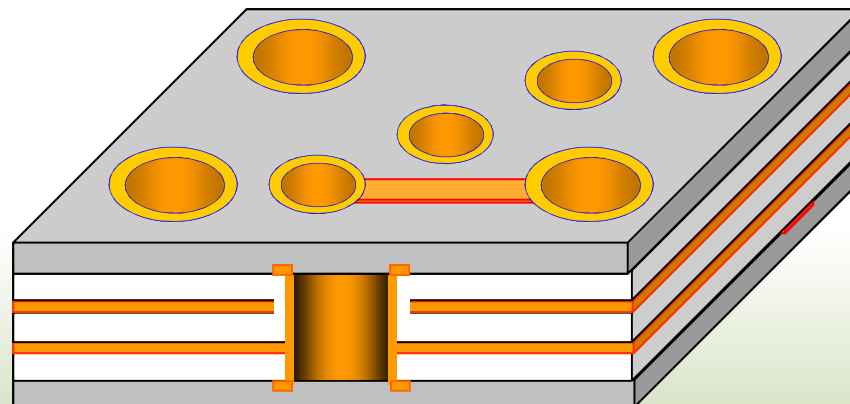
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Etching



Dry Film Stripping



<http://www.standardpcb.com>

Email: info@standardpcb.com

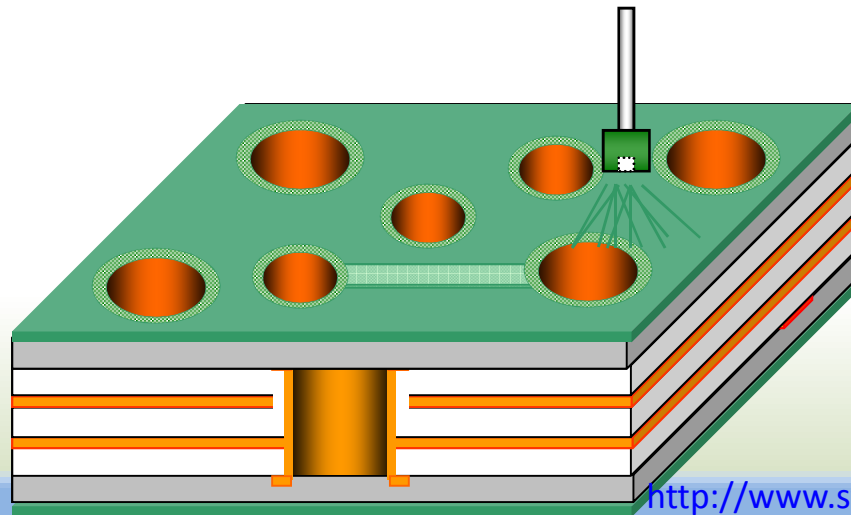
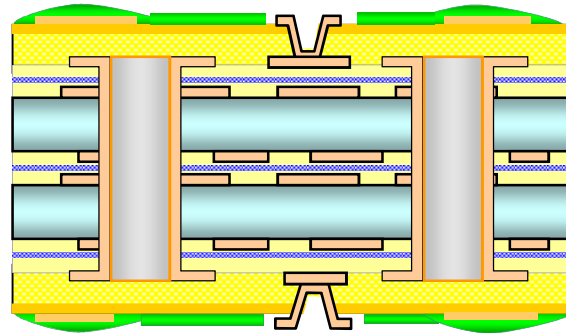


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30. Solder Mask Process



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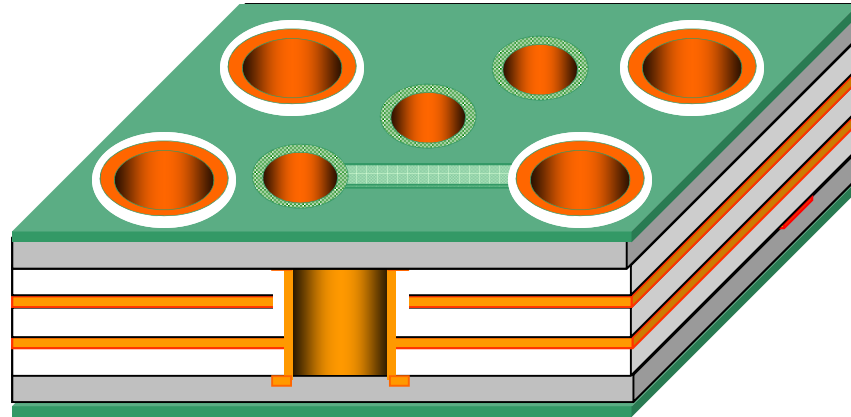


Standard Printed Circuit Board Ltd.

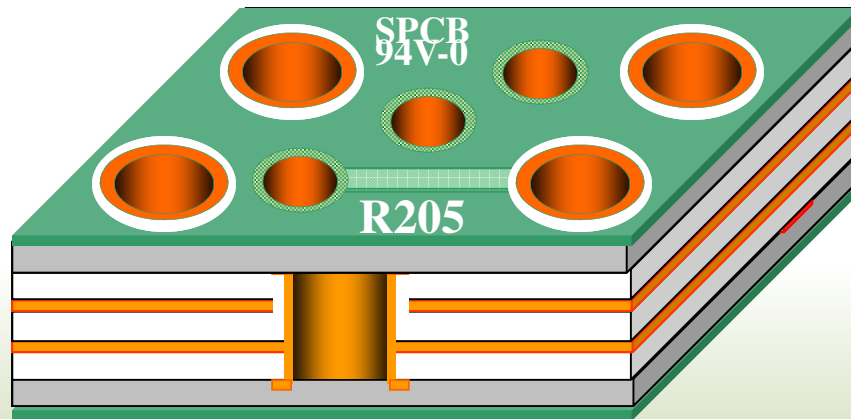
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31. S/M Developing



32. Legend Printing



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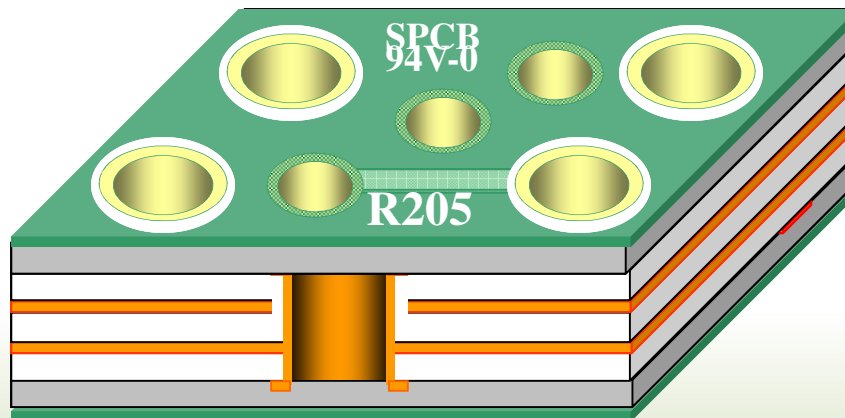
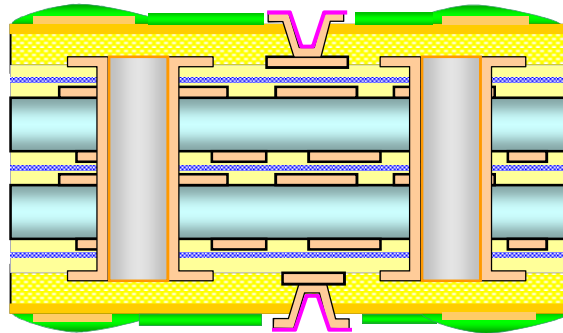


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33. Electroless Ni/Au , HAL_lead free and Etc.



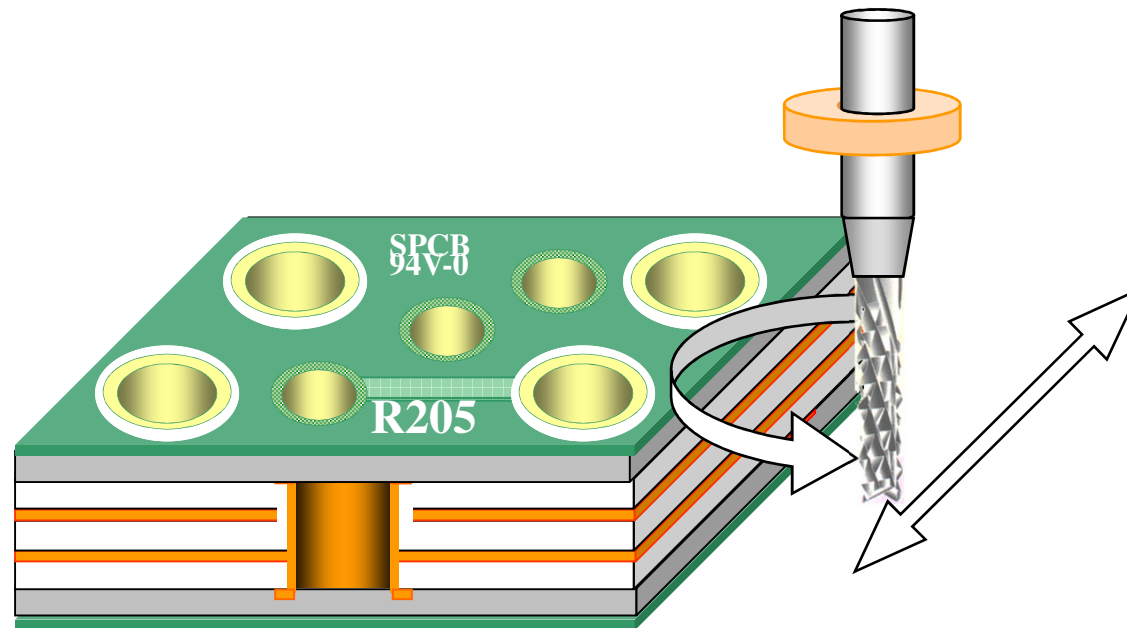


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34. Outline Profile and Electrical Testing



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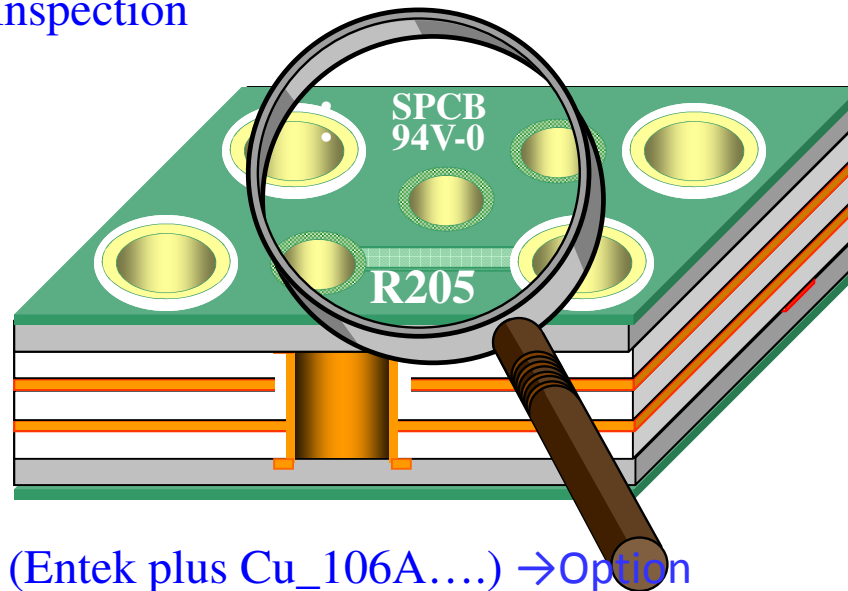


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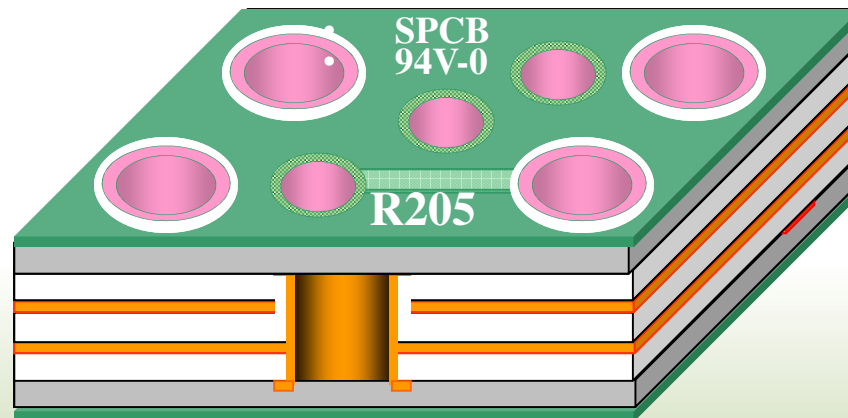
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36. Final Inspection



37. O.S.P. (Entek plus Cu_106A....) → Option



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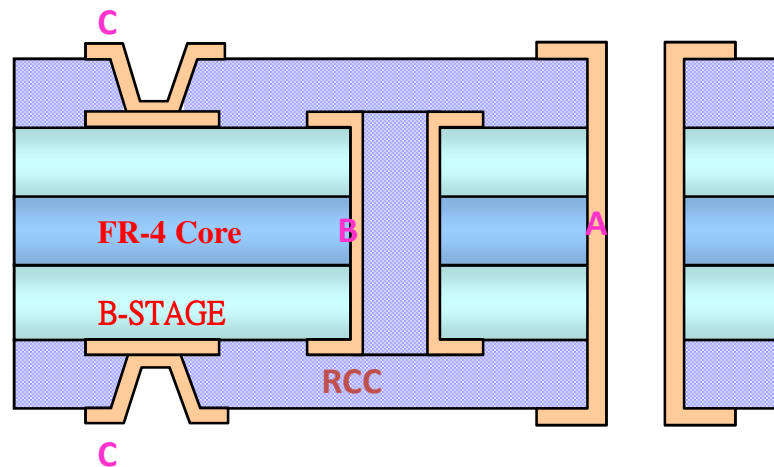
BURIED VIA AND LASER BLIND VIA OPTION

A = THROUGH VIA HOLE

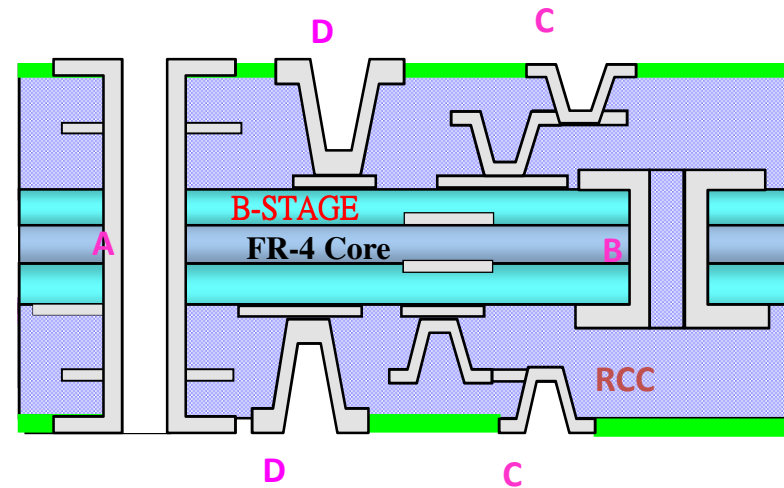
B = BURIED VIA HOLE

C = One Level Laser Blind Via

D = Two Level Laser Via



LASER BLIND & BURIED VIA LAY-UP



LASER BLIND & BURIED VIA LAY-UP



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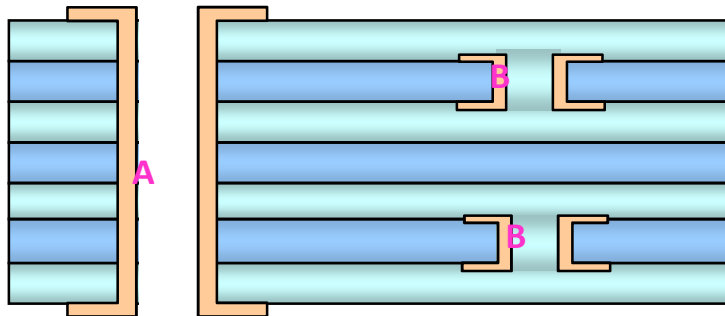
BLIND AND BURIED VIA OPTION

A = THROUGH VIA HOLE

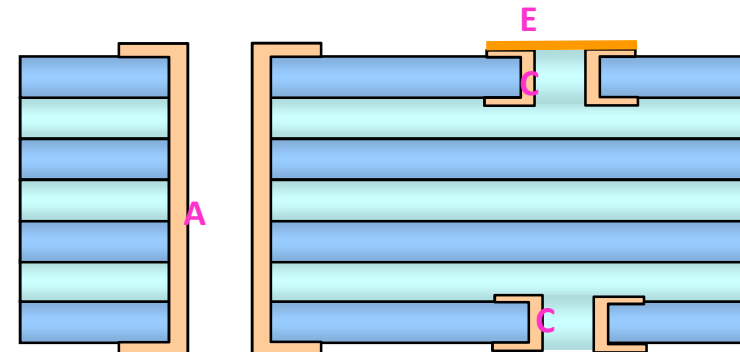
B = BURIED VIA HOLE

C = BLIND VIA HOLE

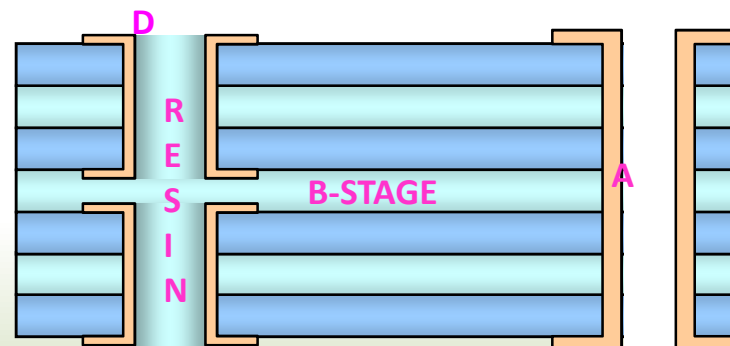
D = BLIND HOLE MLB VIA



BURIED VIA LAY-UP



BLIND VIA LAY-UP



BLIND VIA SEQUENTIAL LAY-UP

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Email: info@standardpcb.com

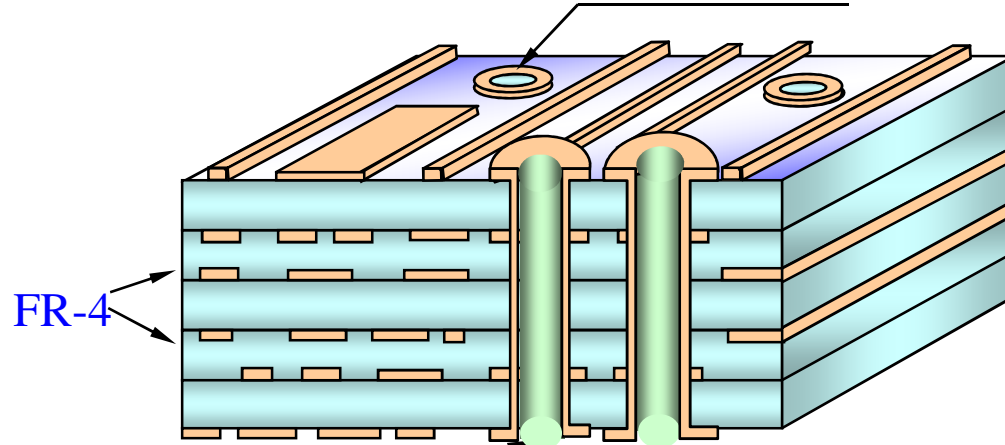


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Conventional PTH



Conventional PTH Conventional PCB

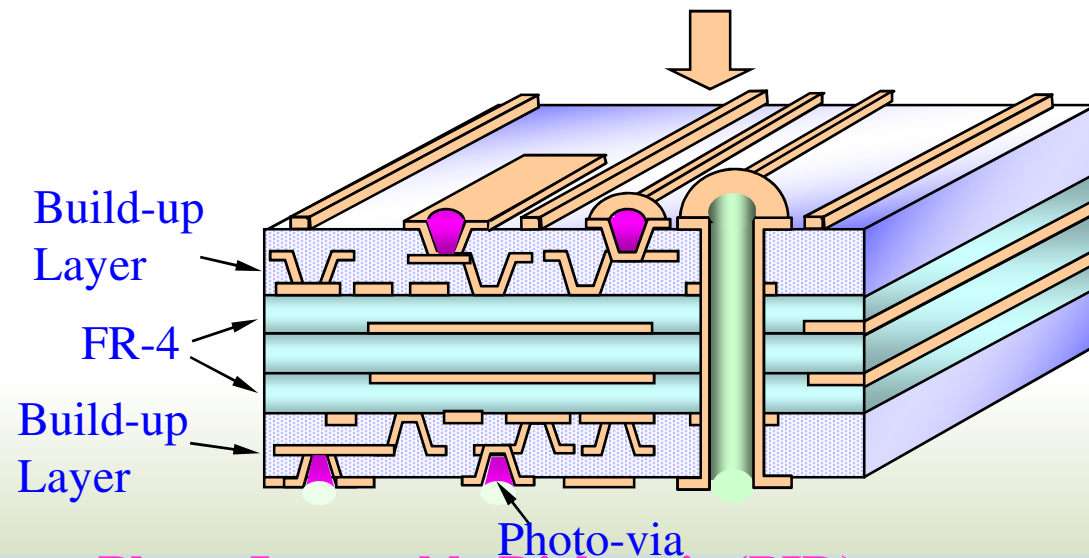


Photo-Imageable Dielectric (PID)

<http://www.standardpcb.com>

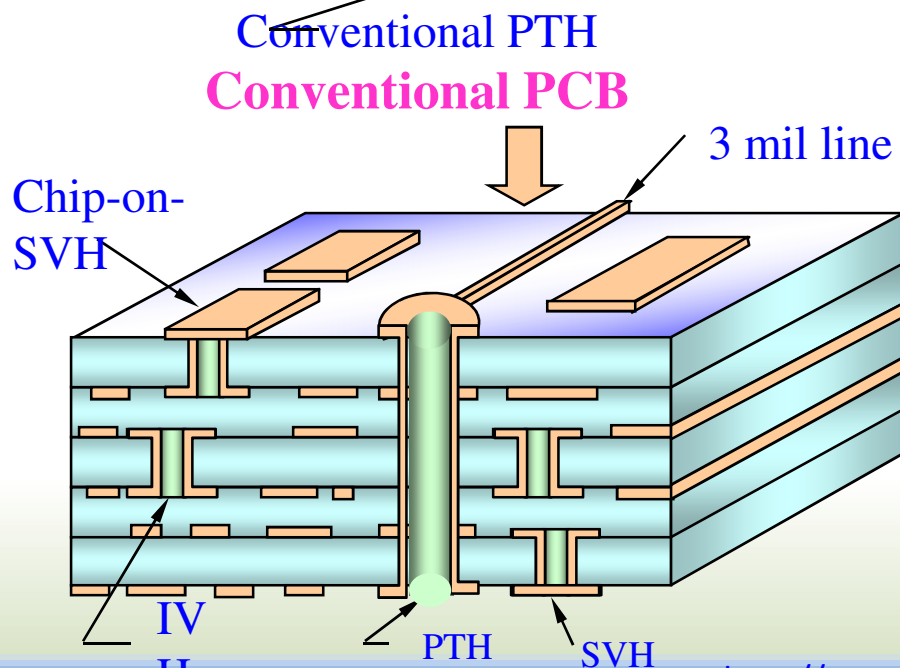
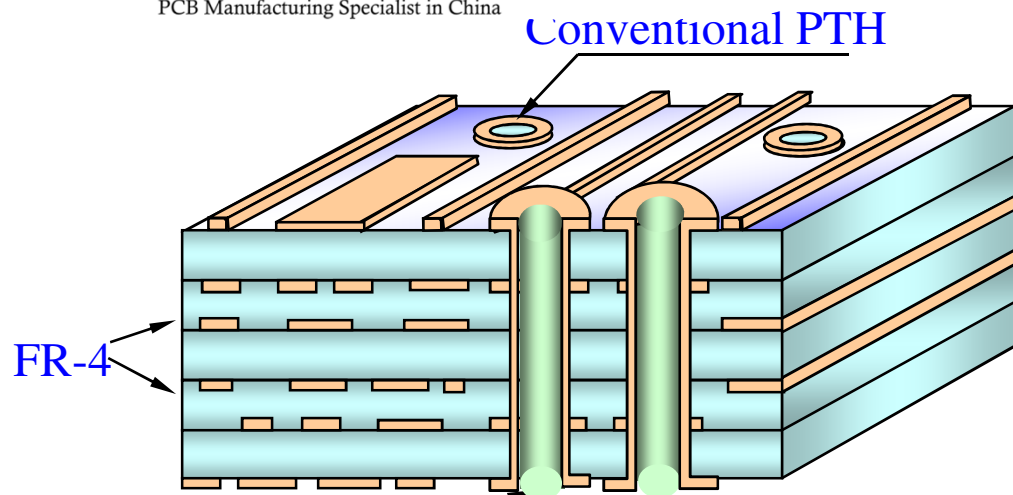
Email: info@standardpcb.com



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Blind Via PCB

<http://www.standardpcb.com>

Email: info@standardpcb.com

End



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