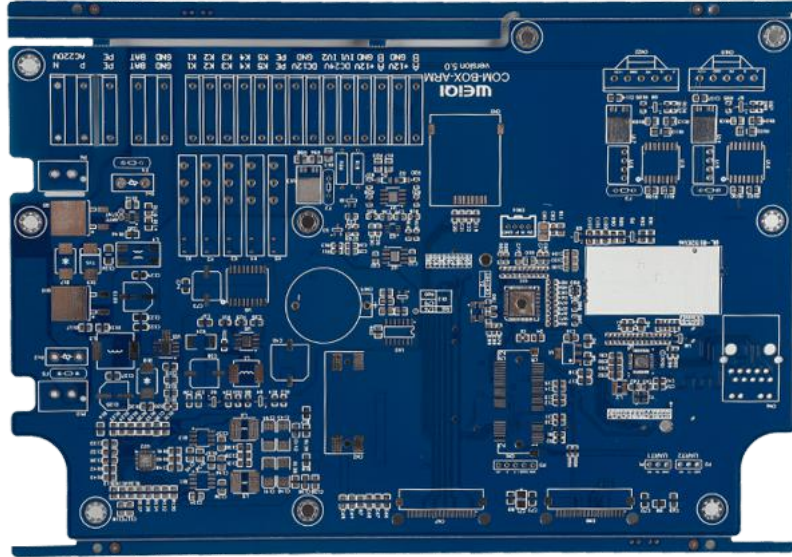




# PCB Fabrication Process Flow Chart

SSSSSSS



PCB, or printed circuit board, is an important electronic part and the support body of electronic components. Because it is made by electronic printing, it is called "printed" circuit board.

Electronic products in the production process, there will be a printed circuit board production process. Printed circuit boards are used in electronic products in all industries. It is an electronic schematic diagram can realize the design function of the carrier, let the design into physical products.

PCB production is a highly professional and complex process. Not only involves advanced production equipment, advanced production process, but also needs professional engineering and technical personnel and excellent production management system.

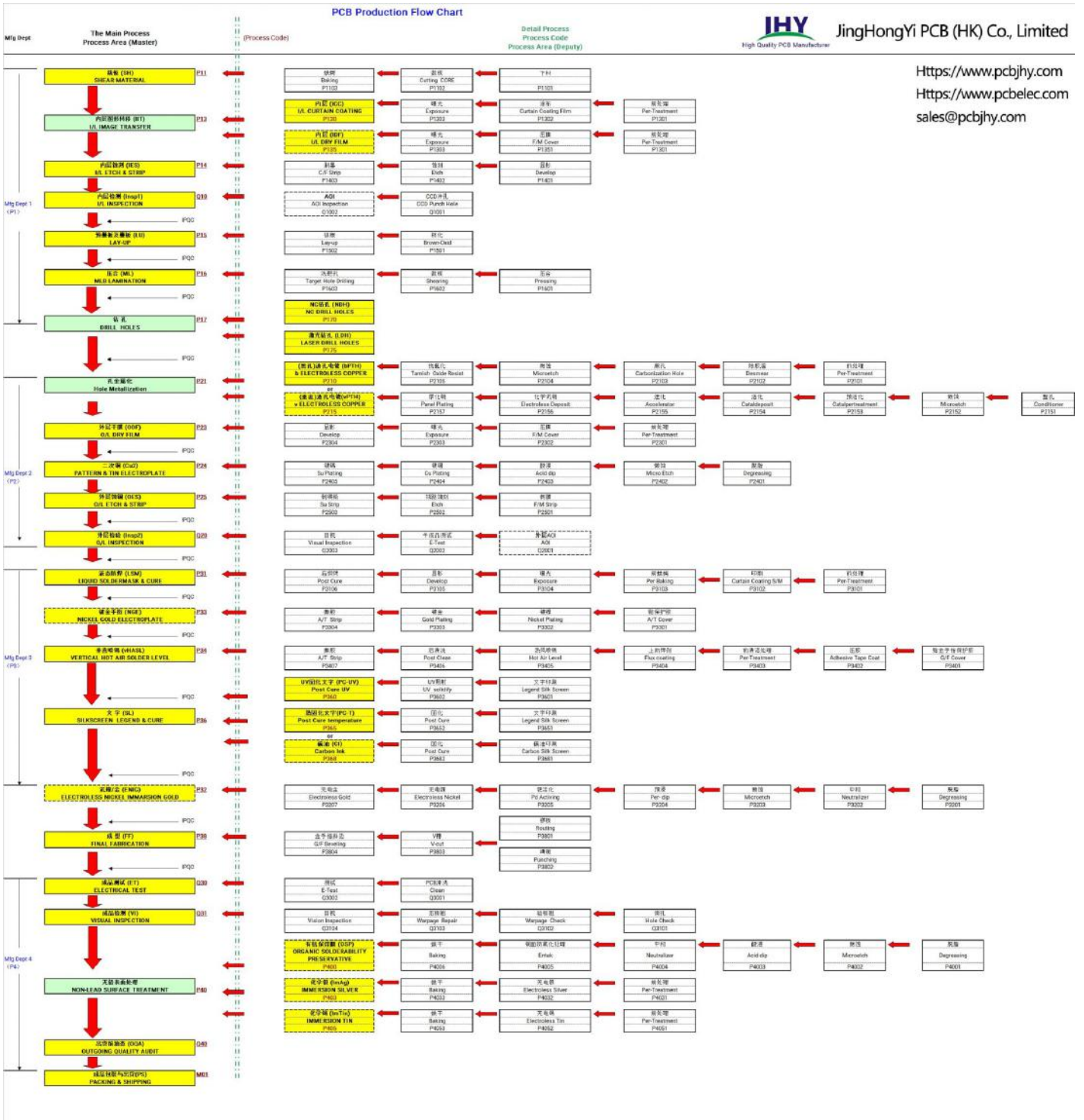
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## PCB Fabrication Process Flow Chart

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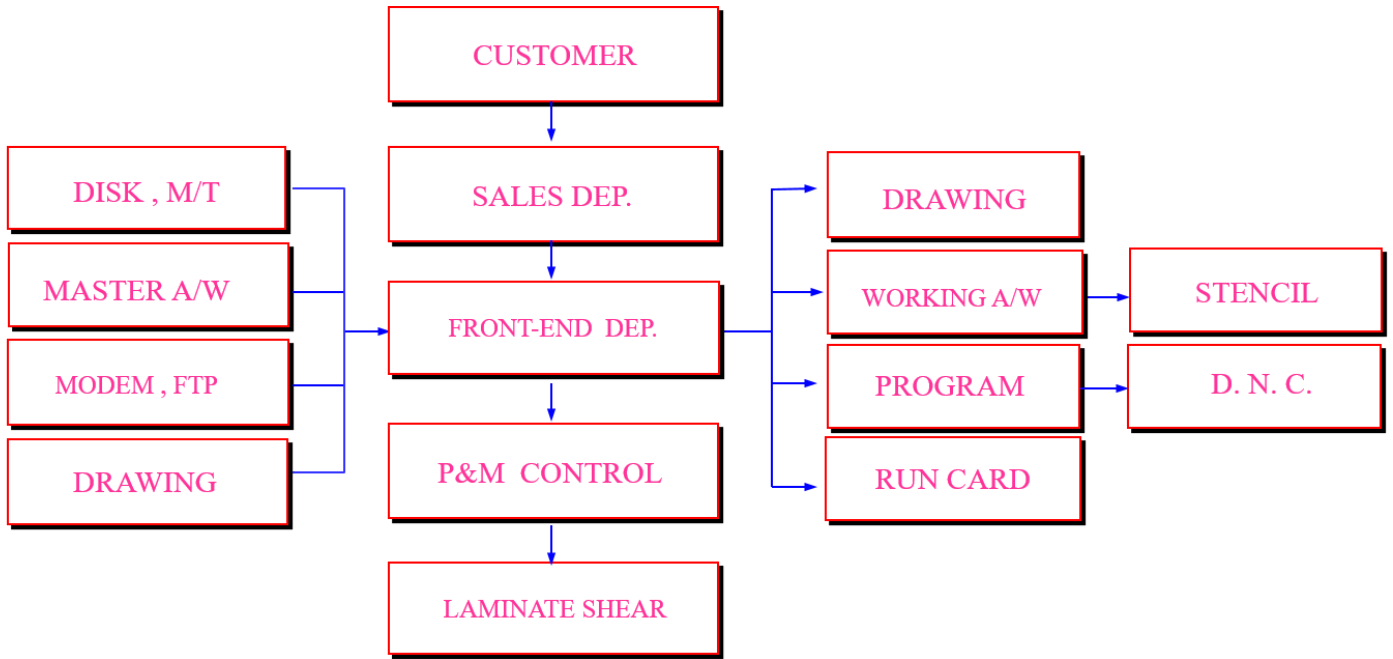




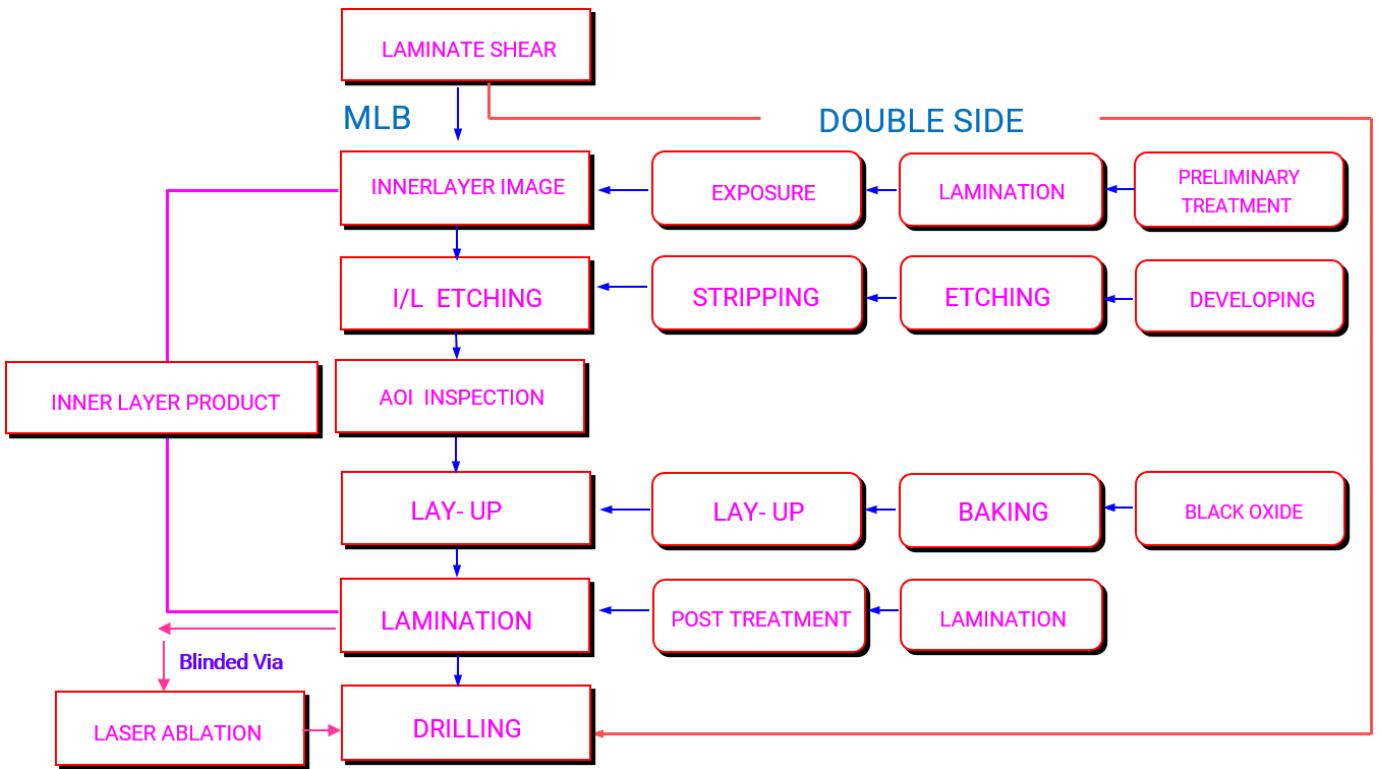
### Detailed schematic diagram of PCB manufacturing process

The following is an example of the production of a typical multi-layer PCB circuit board.

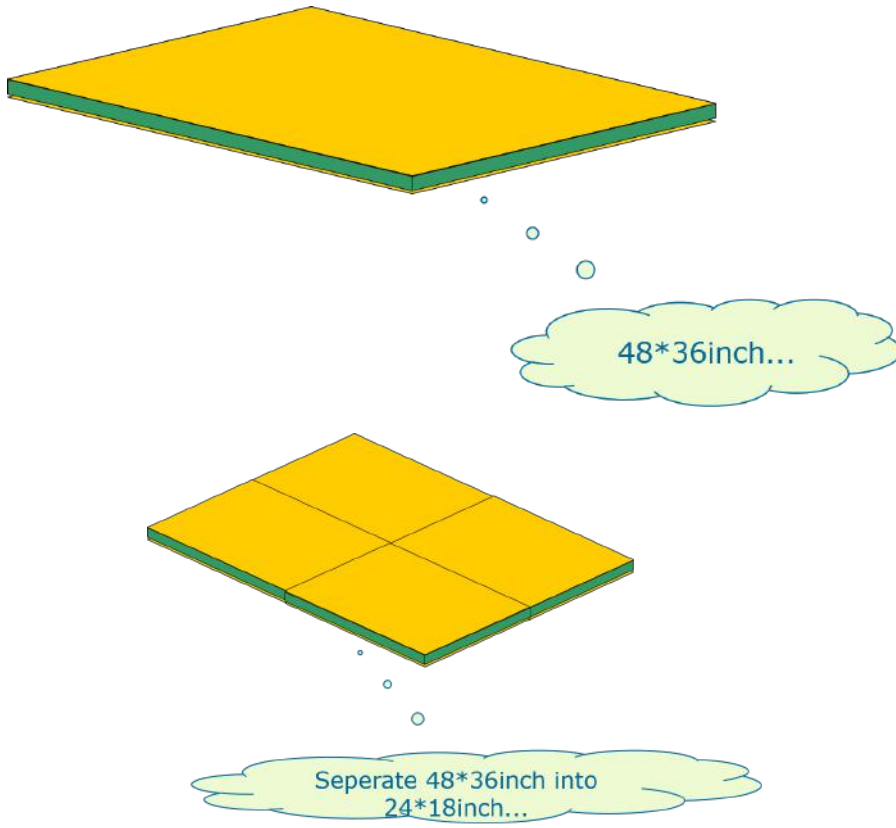
#### 1, Preparation and process before PCB production



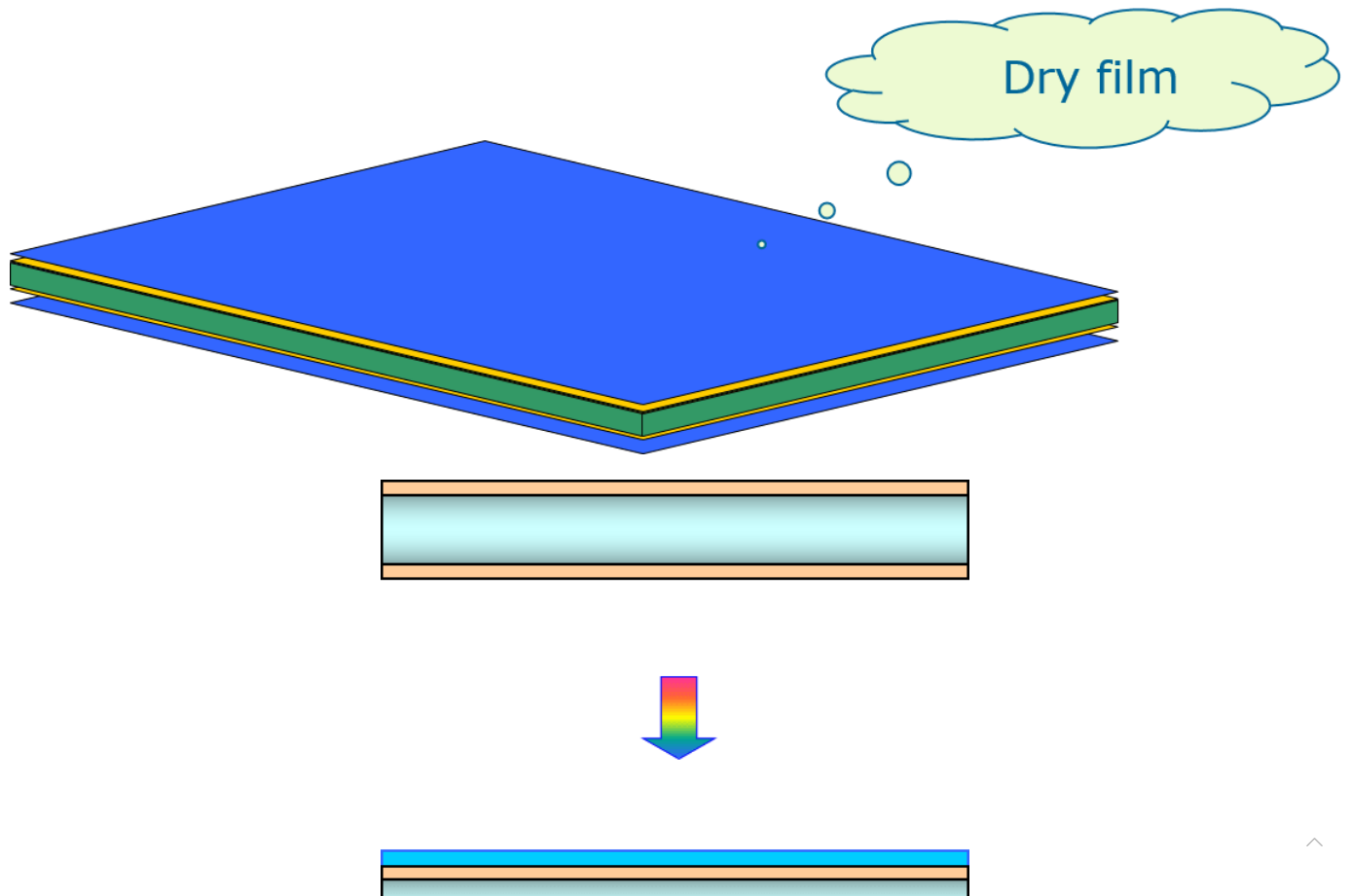
2, Multilayer PCB inner layer manufacturing process

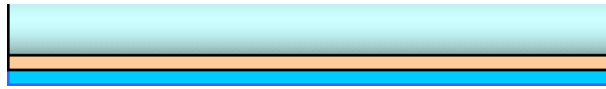


2.1, PCB Materials and Cut Laminate

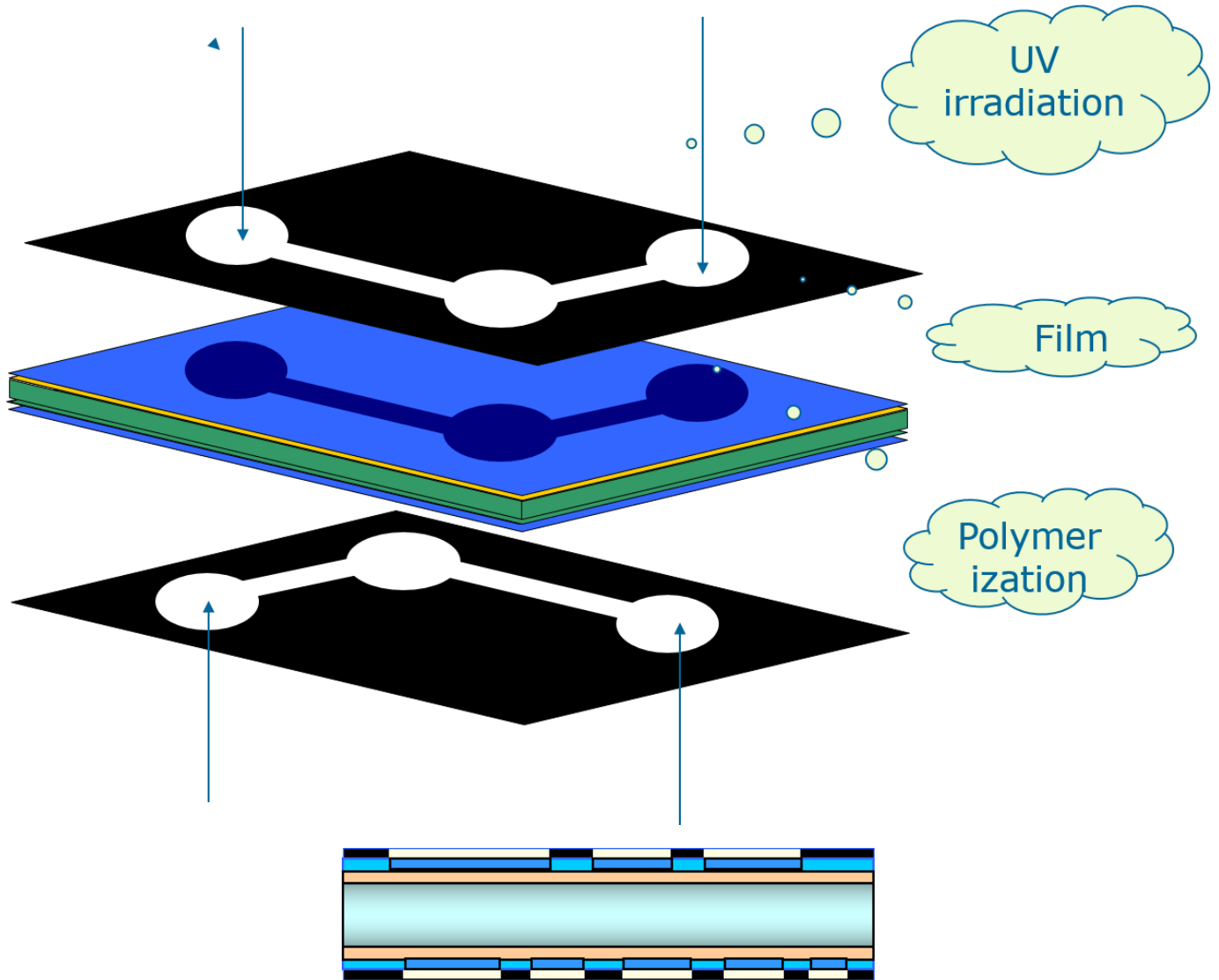


## 2.2, Inner Layer Image Transfer-Paste Film

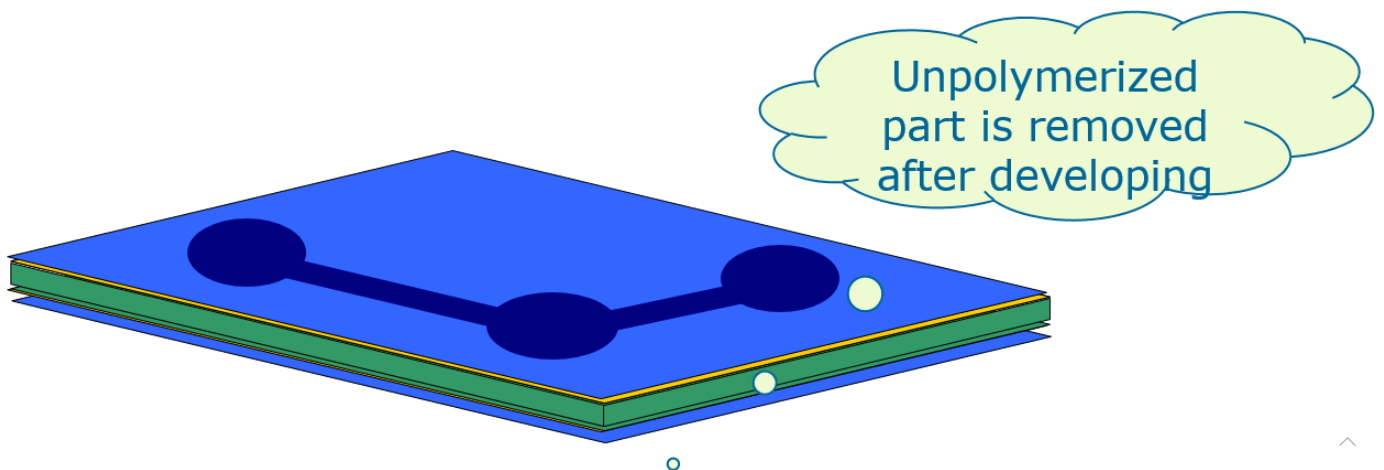


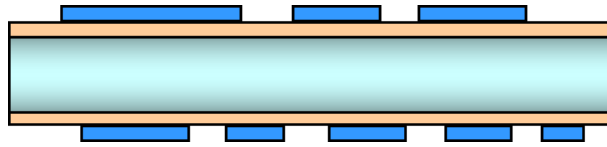


### 2.3, Inner layer image transfer—Exposure



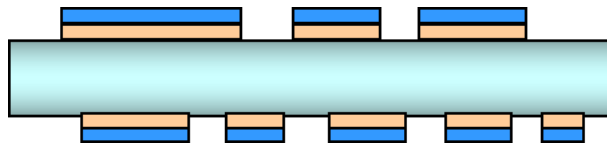
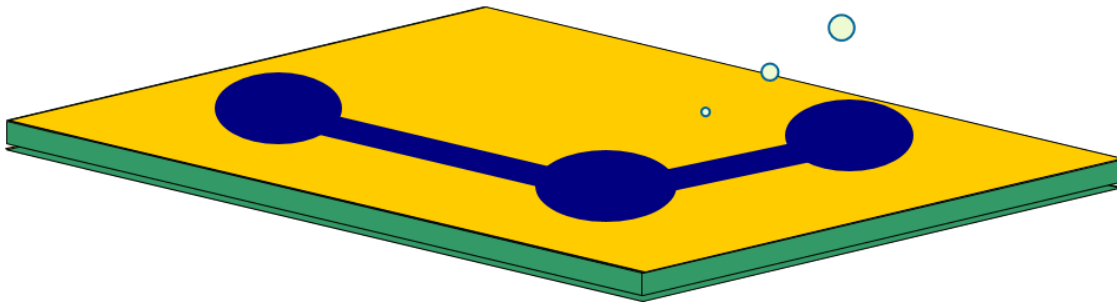
### 2.4, Inner layer image transfer—Developing





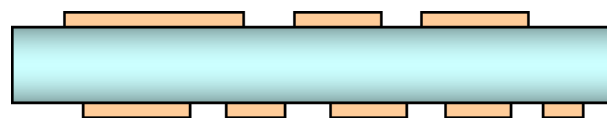
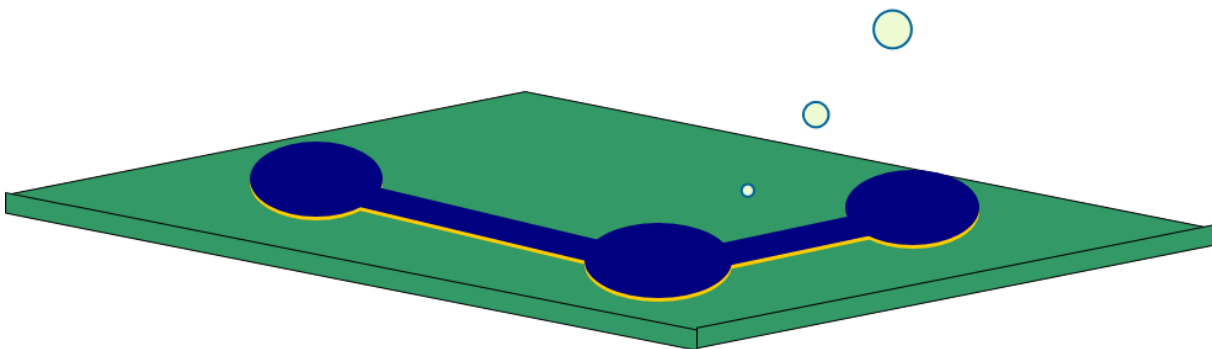
2.5, Inner layer image transfer—Etching

Extra copper is etched

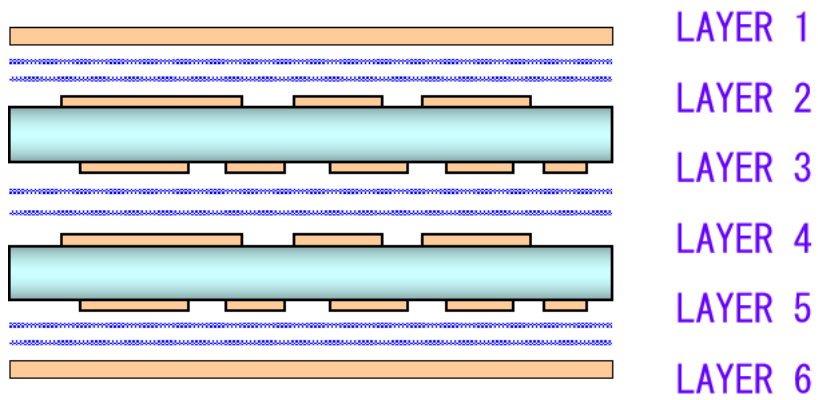
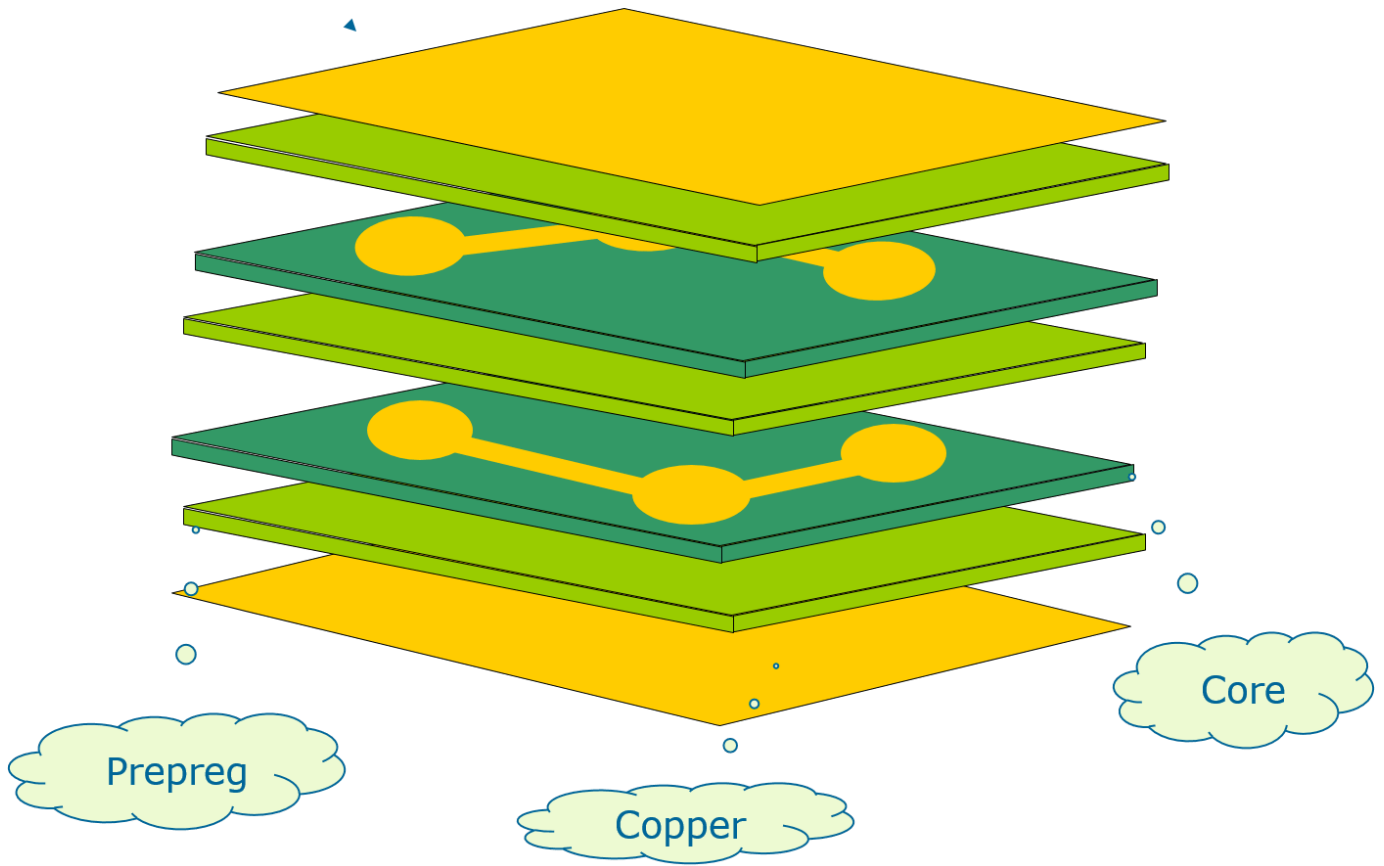


2.6, Inner layer image transfer—Stripping

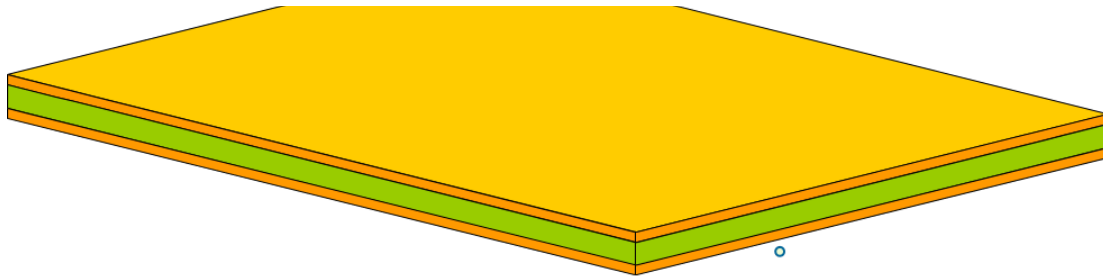
Dry film on trace is stripped



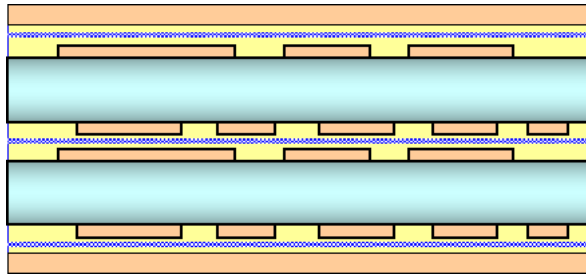
### 2.7, Laminating-Stack up



### 2.8, Laminating - Lamination

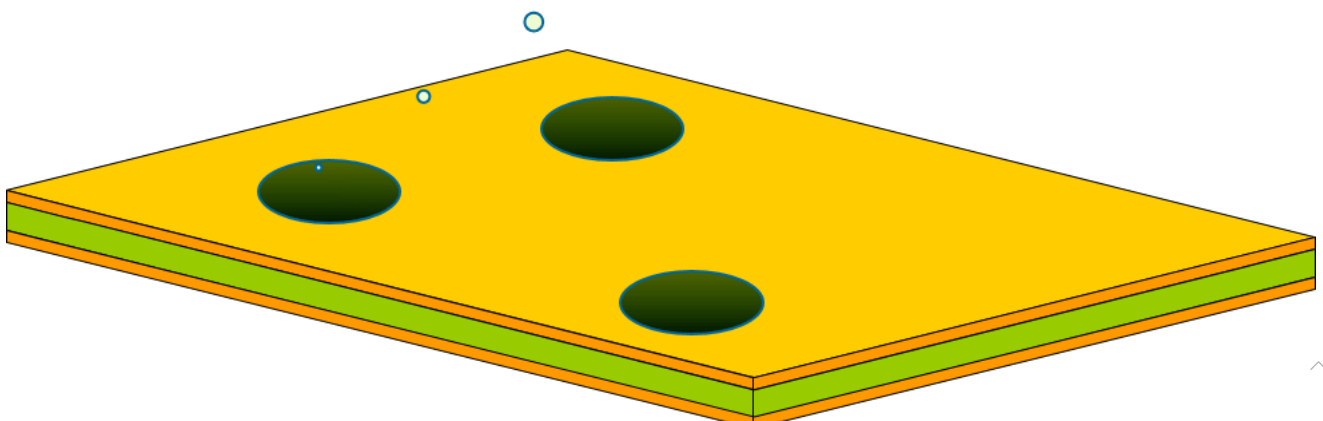


6 Layer

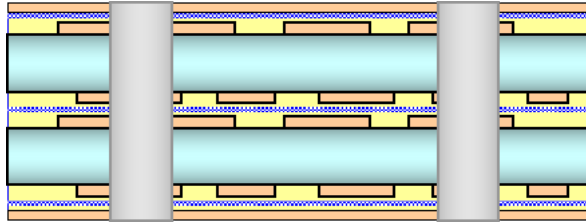


### 2.9, Drilling

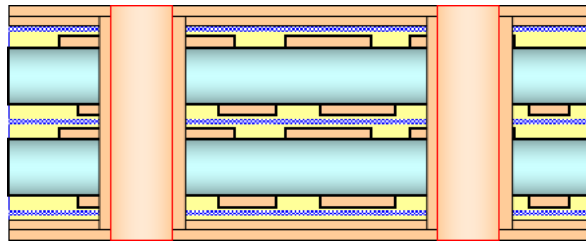
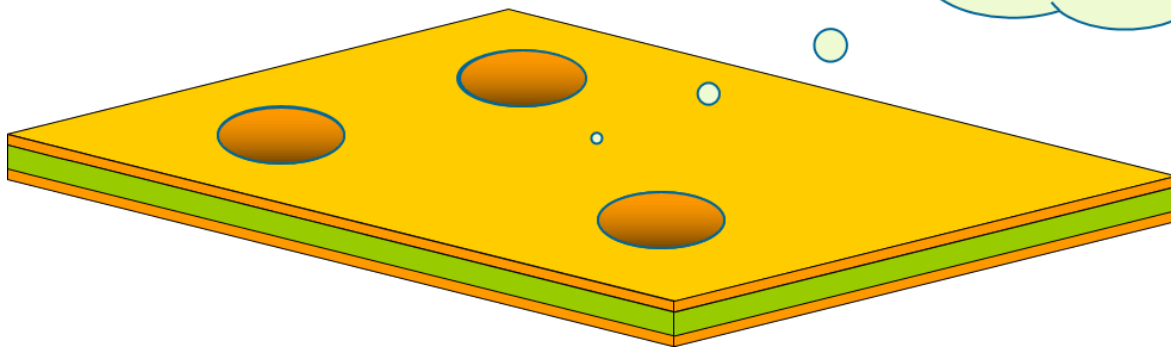
Drilling



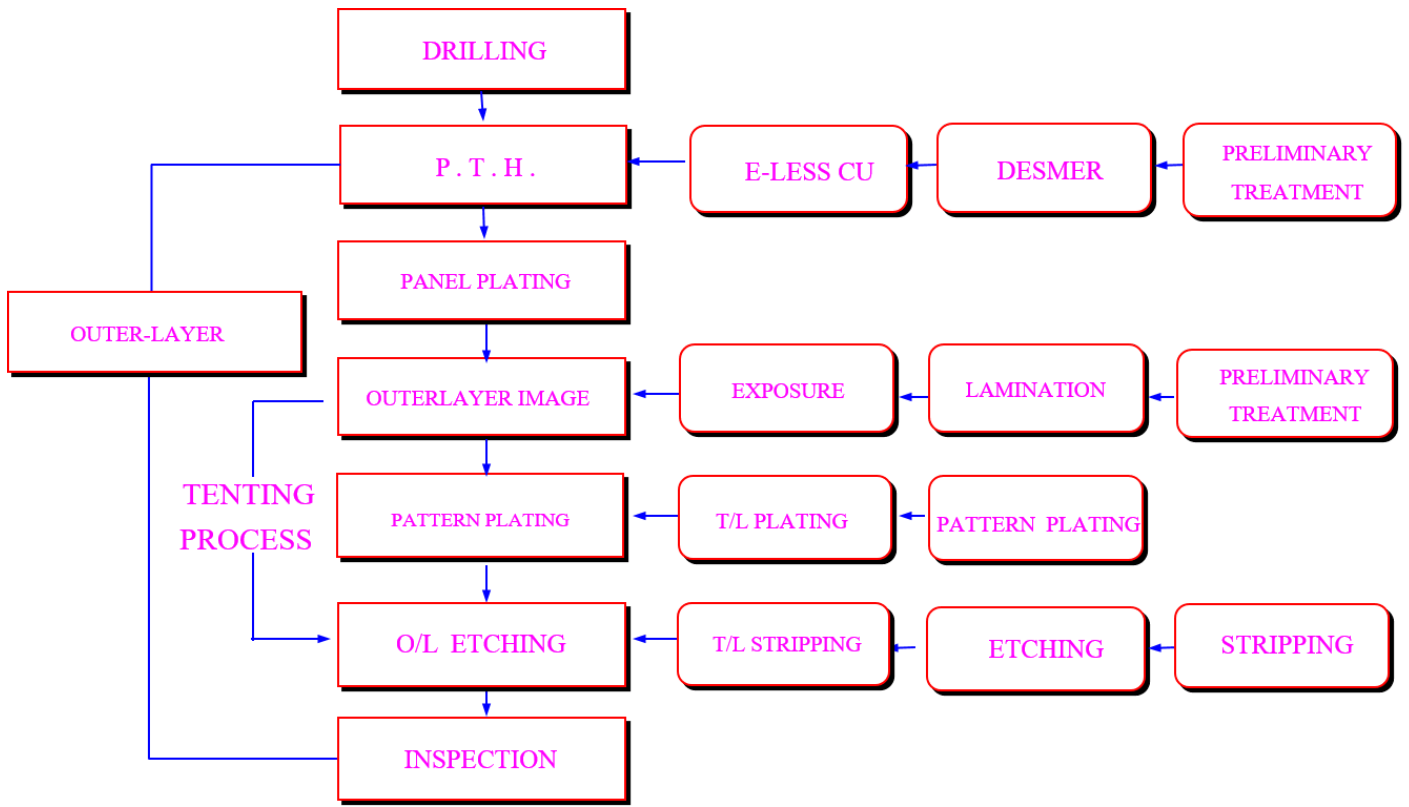




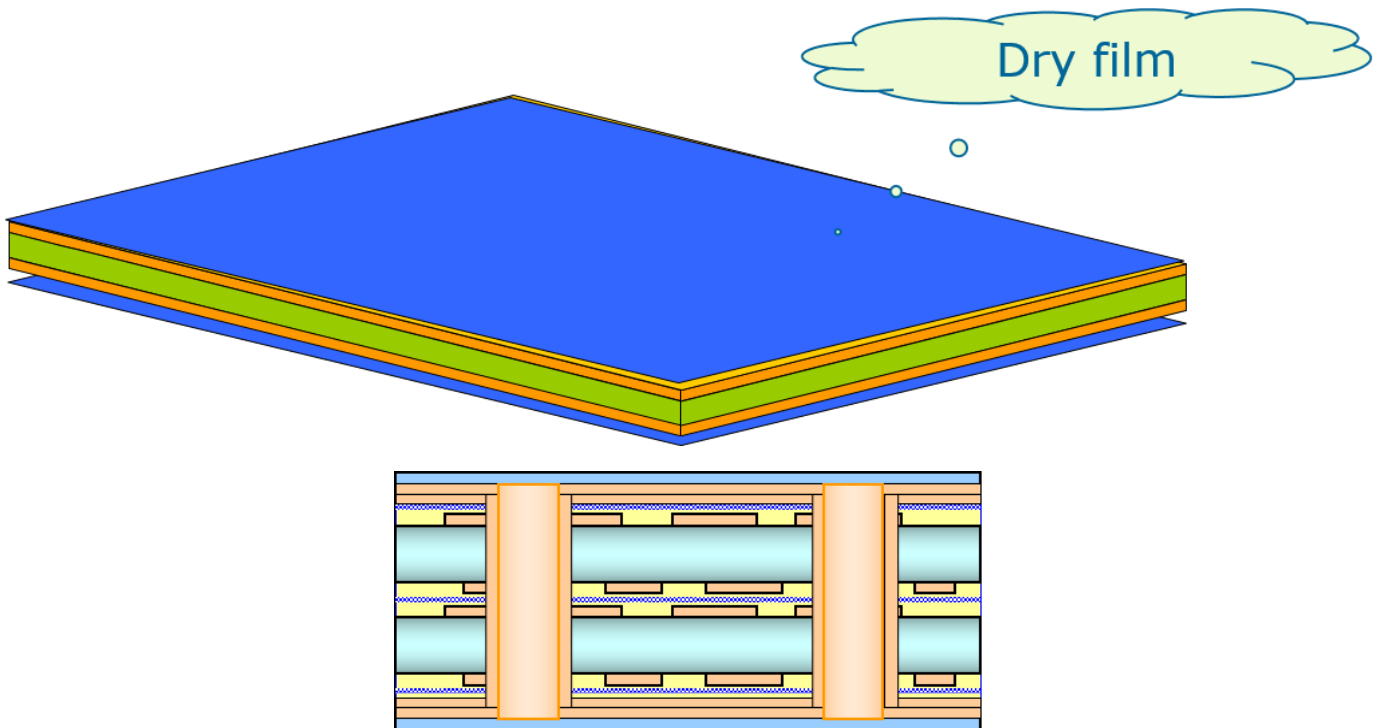
2.10, 5.PTH (Plate Through Hole)



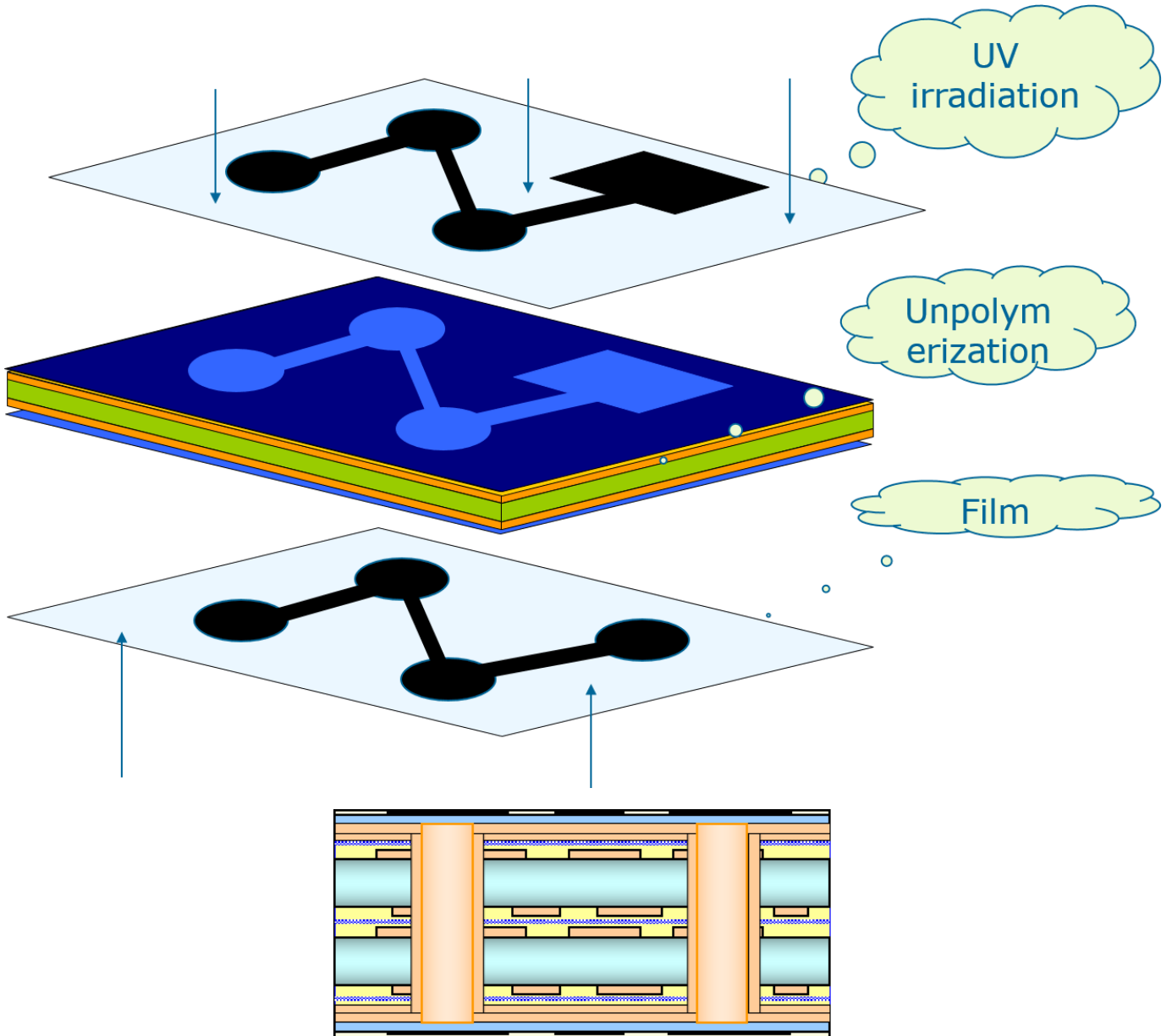
3, Multilayer Printed Circuit Board Outer-layer Manufacturing Process



3.1, Outer-layer Image Transfer - Paste Film



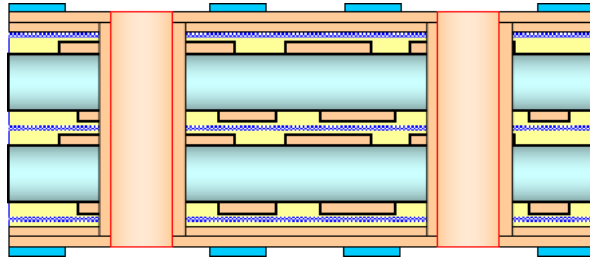
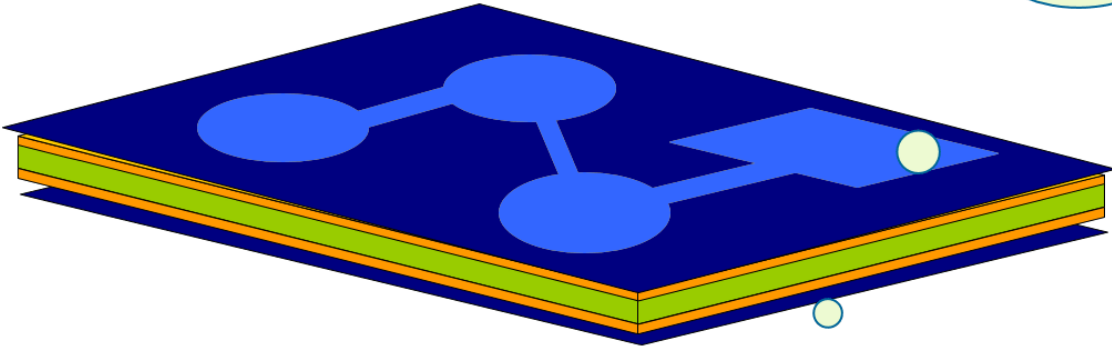
3.2, Outer Layer Image Transfer—Exposure



### 3.3, Outer Layer Image Transfer—Developing

Unpolymerized part is dissolved

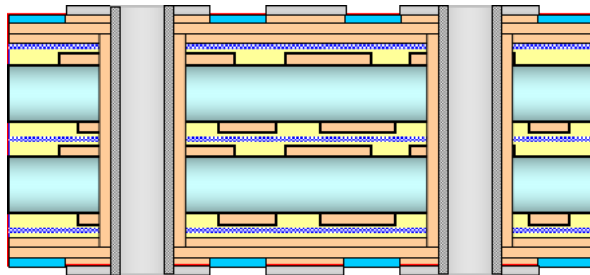
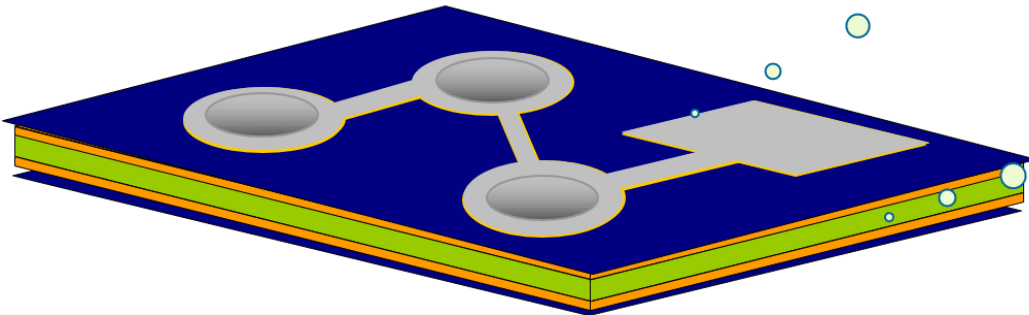
after developing



3.4, Pattern Plating-Copper plating+Tin plating

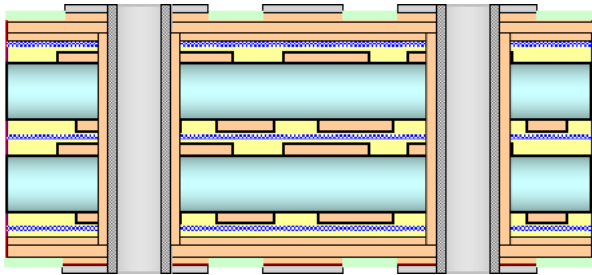
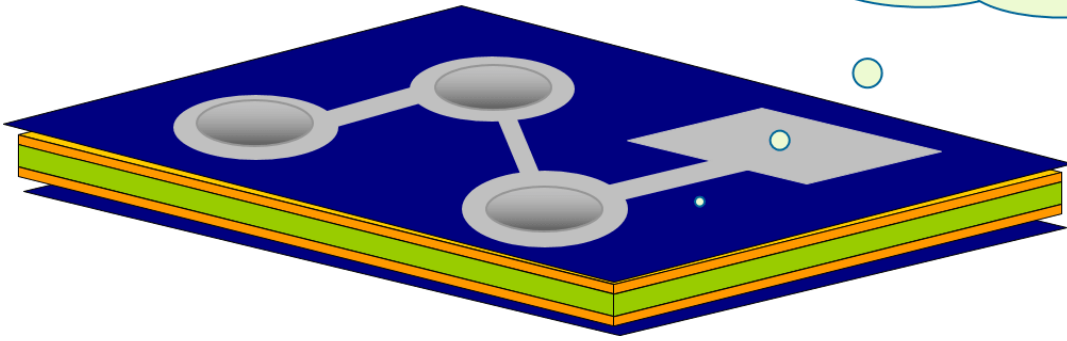
Tin Plating

Copper Plating



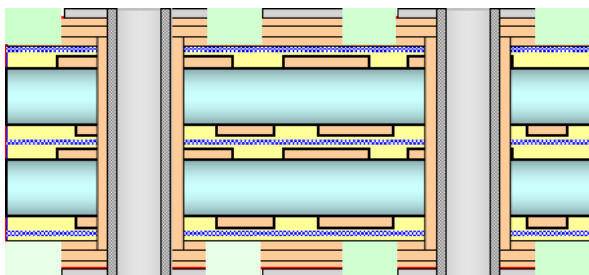
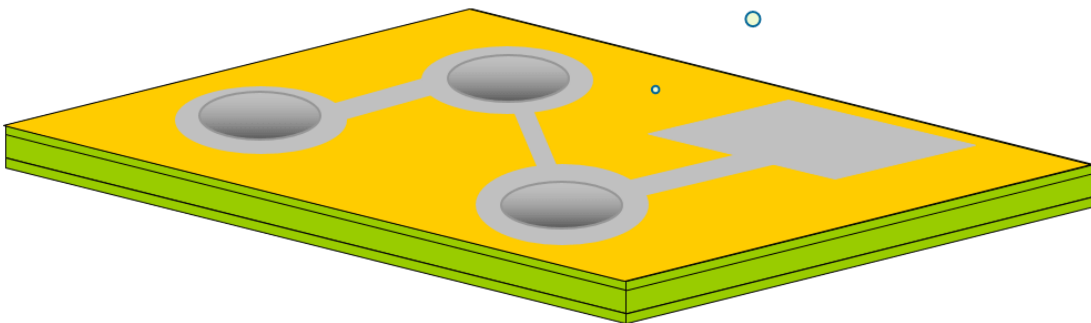
3.5, Outer Layer Etching-Stripping

Polymerized dry film is stripped



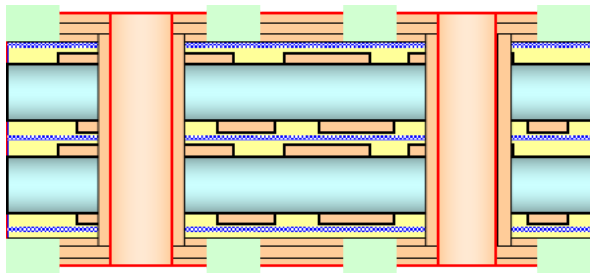
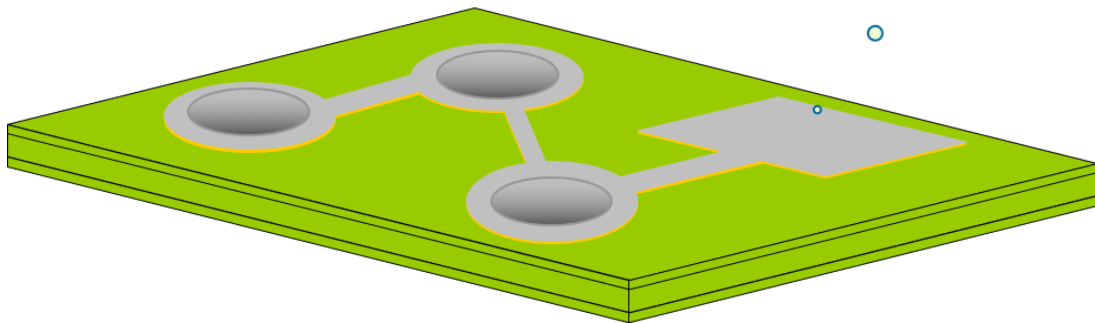
3.6, Outer Layer Etching-Etching

Extra copper is etched



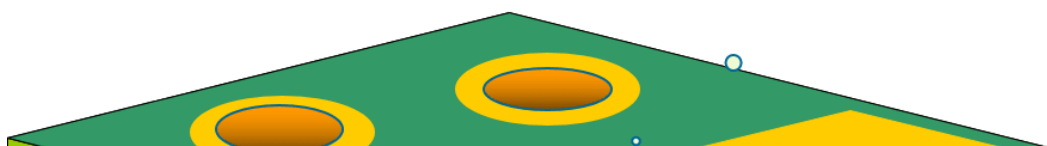
3.7, Outer Layer Etching-Tin Stripping

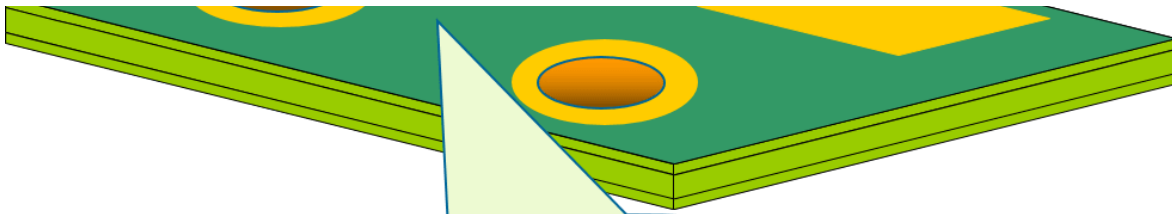
Tin on trace is stripped



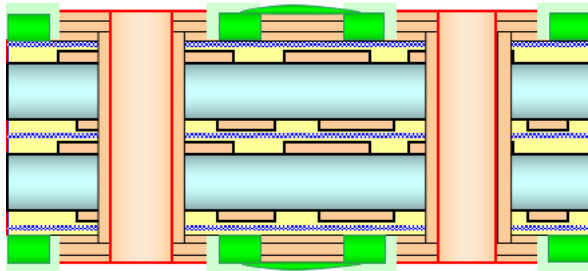
### 3.8, Solder Mask

Green solder mask is covered



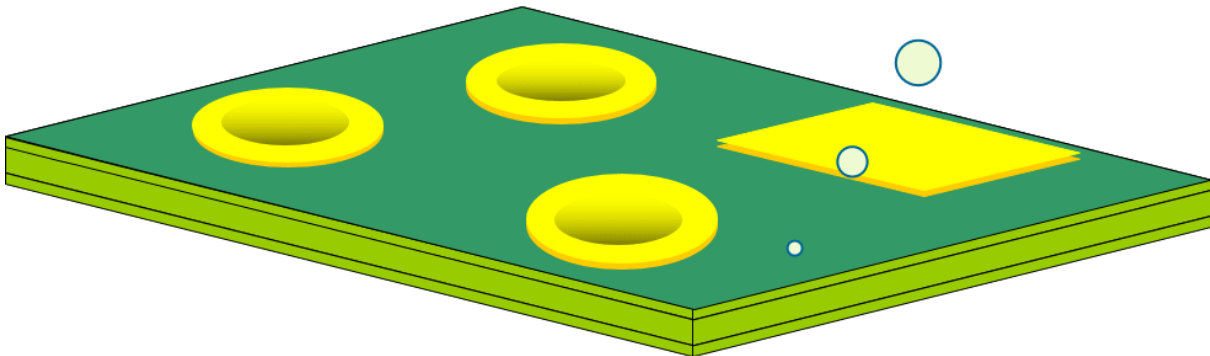


Same with inner layer image transfer, it goes through three steps, such as cover green solder mask, exposure, developing

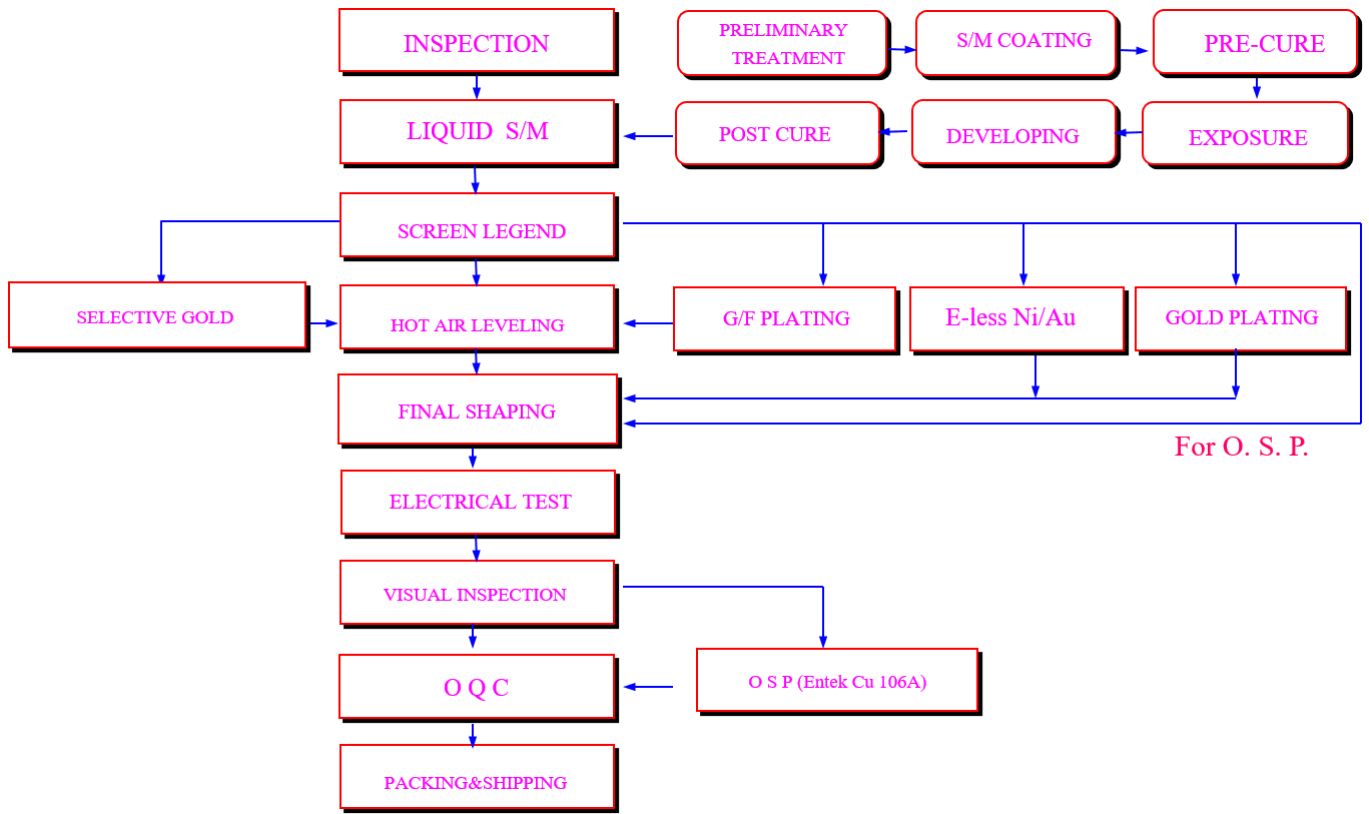


### 3.9, Surface Finish

Such as cover gold, silver, tin, etc.



### 4, External View and Molding Process Flow Path



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