



Smart PCBs

Quality @ Work

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www.smartpcbs.com

Dear Sir/Madam,

SmartPCBs is the leading fabricators of printed circuit boards (PCBs) in Pakistan, capable of manufacturing single, double, and multilayer PCB's. The company differentiates itself with other competitors in experienced workforce, superior quality, and advanced equipment.

Our multifaceted approach to production in terms of engineering prototypes and bulk orders of single and multilayer PCB's offer our customers a wide range of flexibility and options. This enables us to develop solutions which allow our clients to increase productivity, reduce operating costs and increased customer satisfaction. Moreover, SmartPCBs offer its customers with sustainable competitive advantage of products showing complete commitment from initial quotation to delivery of order and beyond.

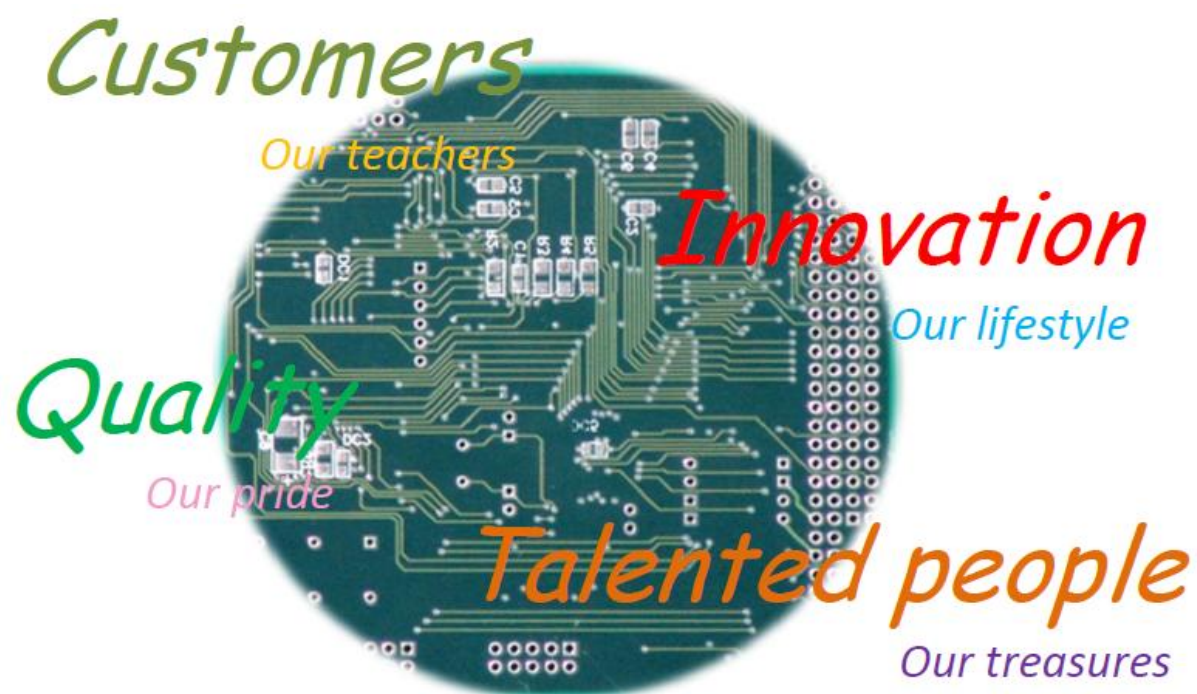
Please take a few minutes to read the enclosed brochure. See how SmartPCB'can optimize your manufacturing needs for PCBs both at the production & prototype level. I invite you to contact us so that we can discuss in details how we can help you.

Thank you of the interest that you have shown in SmartPCBs.

Looking forward to hear from you soon.

With all the best regards.

S. M. Adnan Iqbal
GM Marketing/Procurement,
SmartPCBs,
Cell: +92 300 501 5588
e-mail: marketing@smartpcbs.com



Smart PCBs

Smart PCBs was founded in 2005, is one of the leading fabricators of printed circuit boards in Pakistan, capable of manufacturing single, double, and multilayer PCBs. The company differentiates itself with other competitors in experienced workforce, superior quality, and advanced equipment. Our multifaceted approach to production in terms of engineering prototypes and bulk orders of single and multilayer PCBs offer our customers a wide range of flexibility and options.

CAPABILITIES

Range of Products

Rigid / Flex / MLB

- Single-sided PCB Double-sided PCB
- Multilayer (up to 16 Layers) PCB
- Blind Vias Supported
- Aluminum Based Copper clad
- Polyimide Hybrid Circuits

Max Panel Size

- Max. Panel size (Double-sided): 508 x 560 mm (20" x 22")
- Max. Panel size (Multi-layer): 457 mm x 304 mm (18" x 12")
- Board thickness : 0.2 – 3.0 mm
- Min gap between tracks : 0.1 mm

Engineering Systems

- Schematic Capture & PCB Design(PCB Reverse Engineering) using software tools. High
- Resolution Photo-plotting File formats supported RS 274 X; DXF; DPF; IPC-D-356

Final Thickness

- Min Panel thickness : 0.2 mm
- Max Panel Thickness: 3.0 mm

Material

- FR4
- FR2
- CEM1

Surface Finishing

- HASL\Leaded Solder
- Bare Copper
- Carbon Ink

Solder mask Type/ Colors

- LPI
- Green Color

Finished Cu Weight / Trace / Space

Outer Layers

- Min. trace gap : 100 microns
- Min. trace width: 100 microns
- Min. via/hole dia. : 300 microns
- Min legend line : 0.15 mm

Gold Fingers

- Edge Connectors

CNC Function

- CNC Routing
- Grooving
- 45 Degree Gold Finger Bevel
- Controlled Z Axis Rout

Inner Layers

- 0.5 Oz. Cu. (Min 0.006" Trace/Space)
- 1 oz. Cu. (Min 0.006" Trace/Space)

Inner Layer Clearances

- 0.3 mm

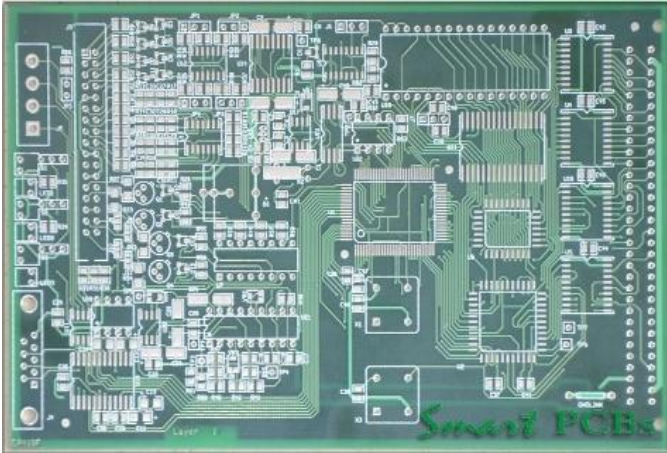
Other Services

- Min Plated Slots 0.5 mm
- Min Non-Plated Slots 0.5 mm
- Controlled Dielectric
- Gold Fingers up to 18" Long

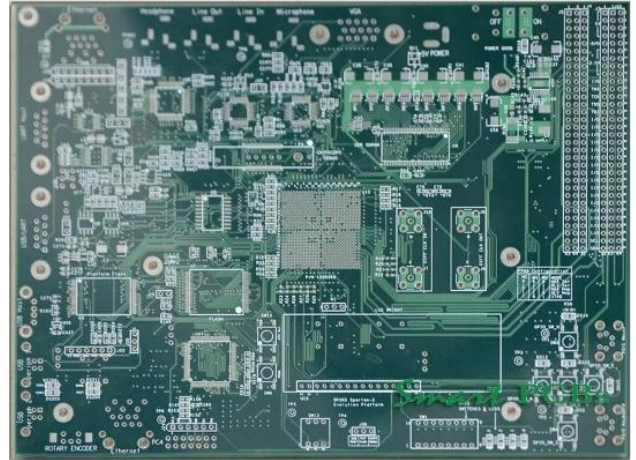
Quality Assurance

- Inspect at IPC Class III 600G standards
- Automatic Optical inspection (AOI)
- Flying Probe Tester (FPT)
- Micro section (Coupon Testing)
- Bare board Jig Testing

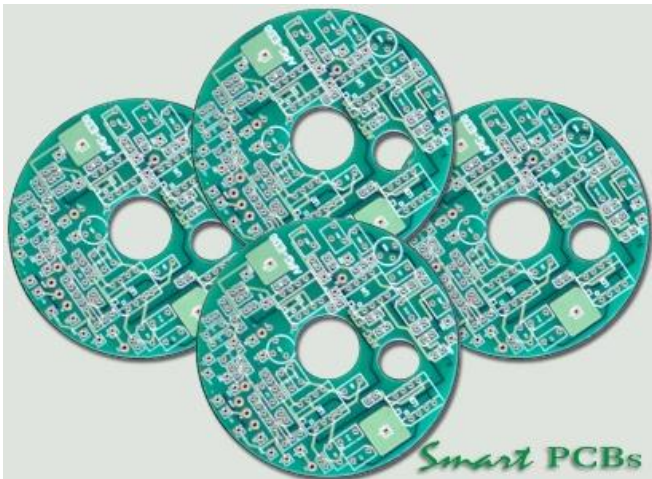
Product Specimen



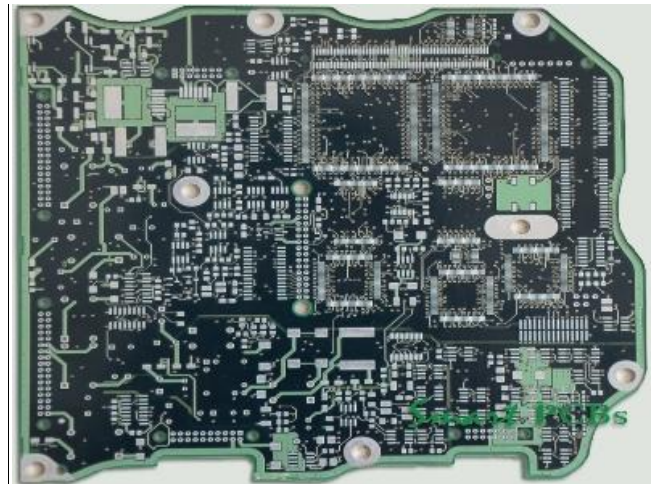
HASL Finish 4 Layer / 1.6mm



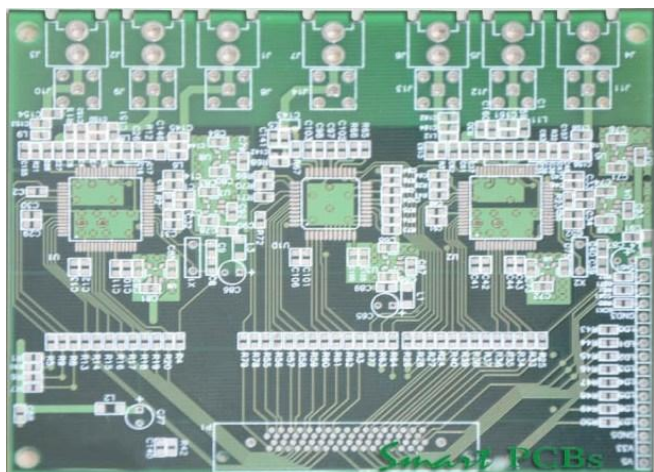
HASL Finish 6 Layer / 1.6mm



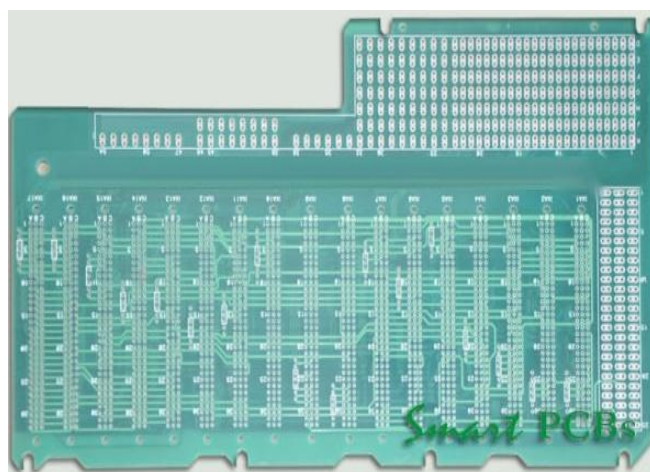
HASL Finish 6 Layer / 2.0mm



HASL Finish 10 Layer / 1.6mm



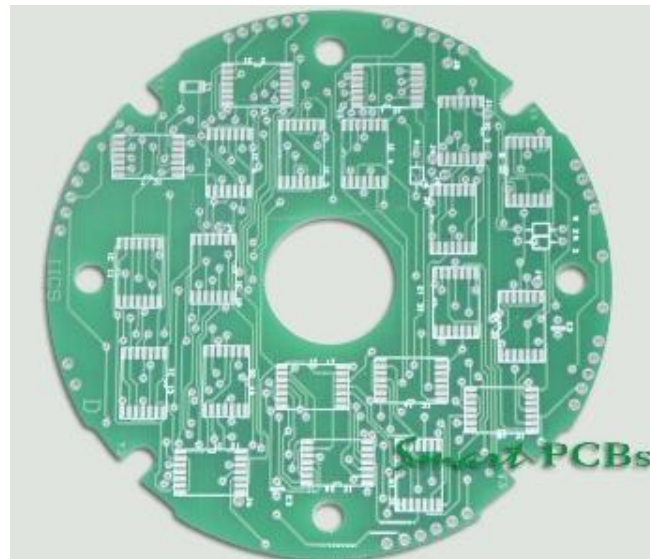
HASL Finish 8 Layer / 2.0mm



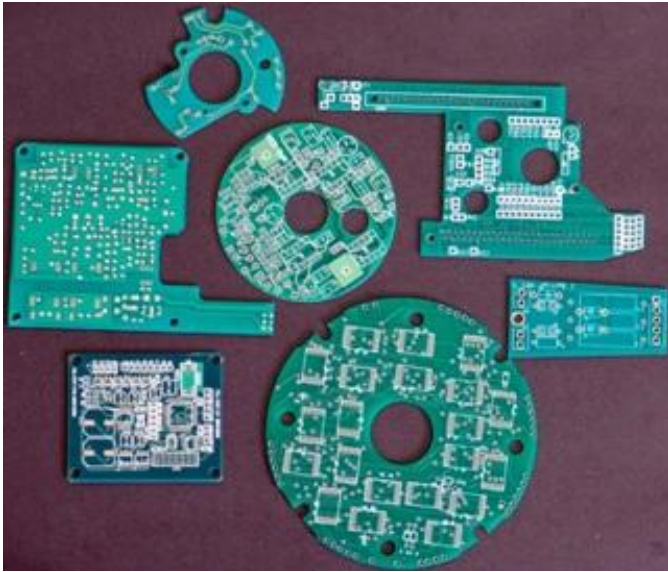
HASL Finish 10 Layer Blind Vias / 2.0mm



HASL Finish 4 Layer / 1.6mm



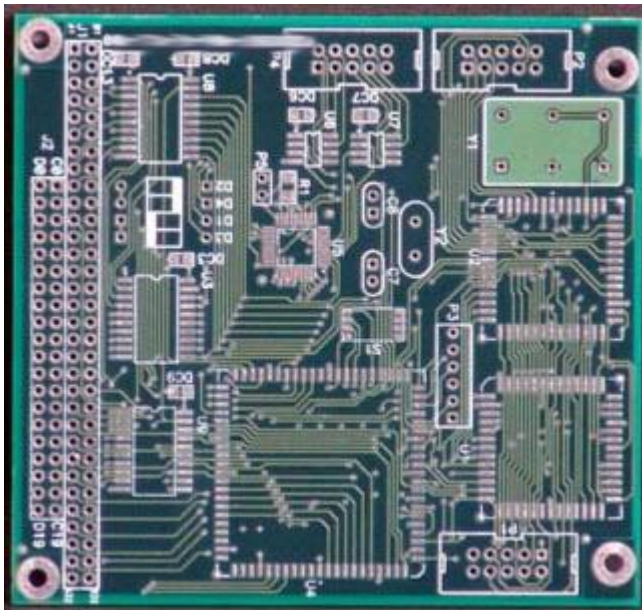
HASL Finish Double Sided / 1.6mm



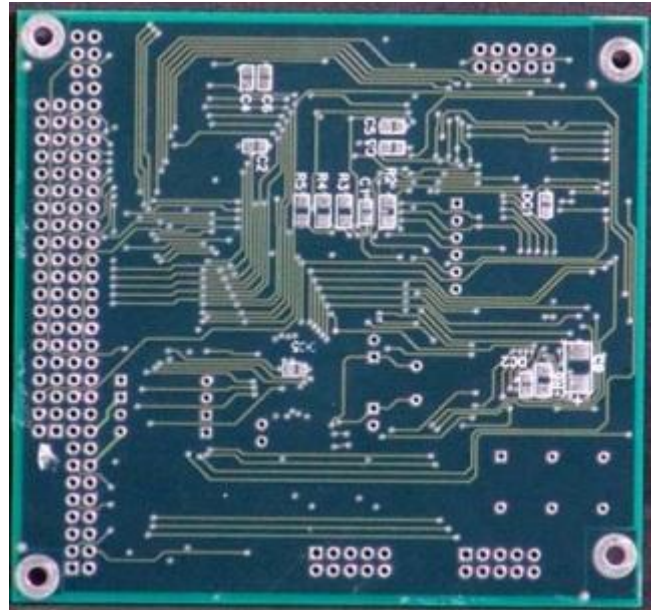
Rigid MLB in different Molding
Top Side



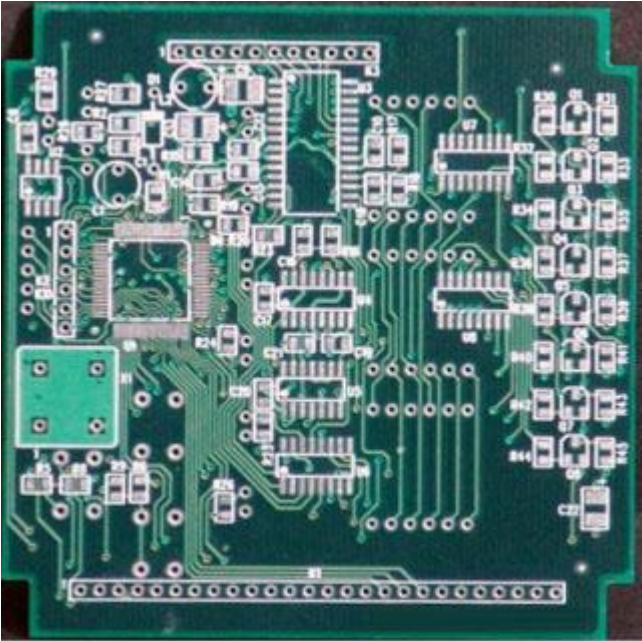
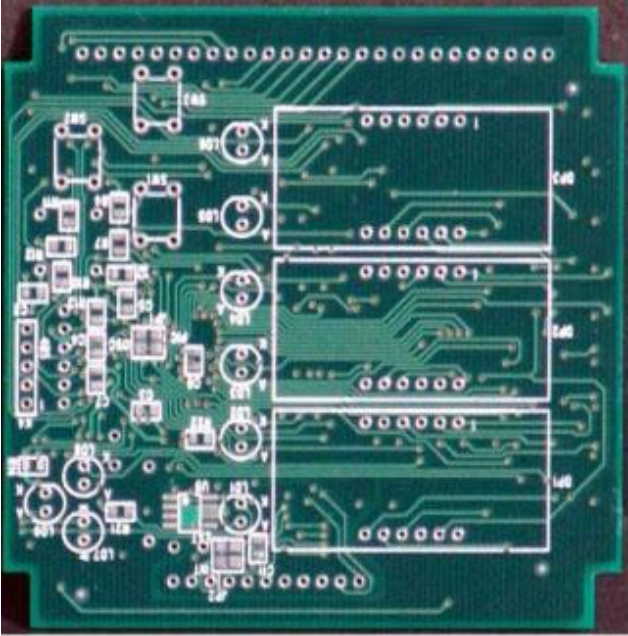
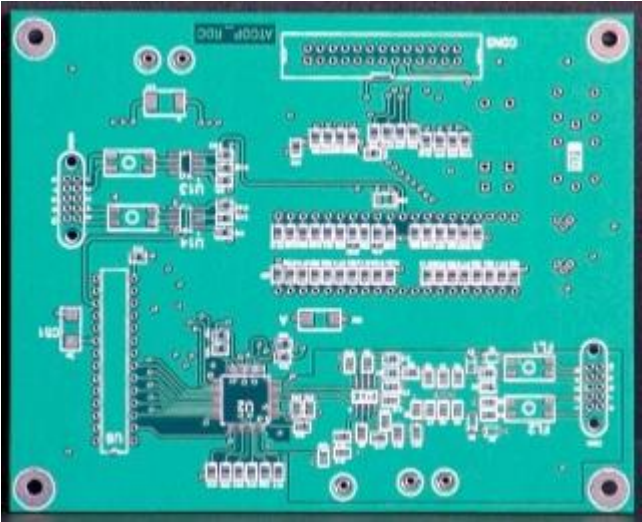
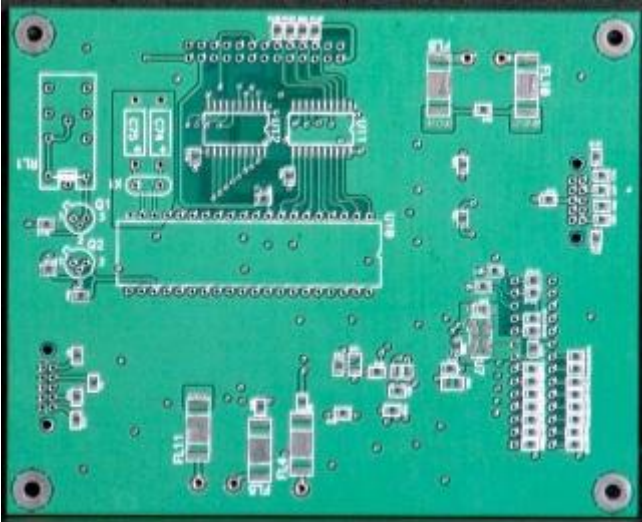
Rigid MLB in different Molding
Bottom Side



HASL Finish 4 Layer / 1.6 mm
Top Side

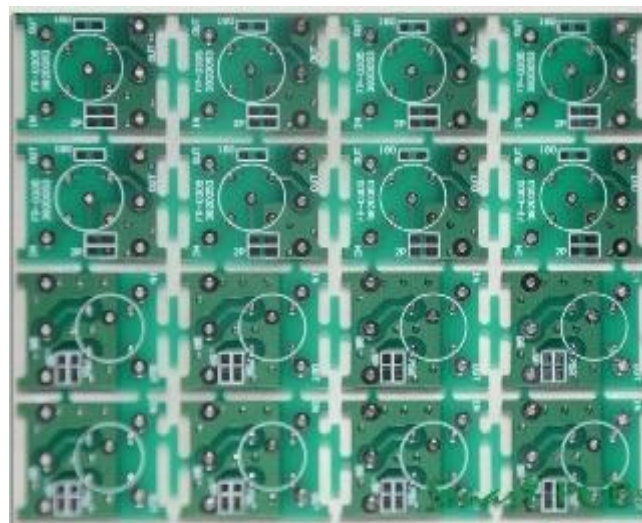


HASL Finish 4 Layer / 1.6 mm
Bottom Side

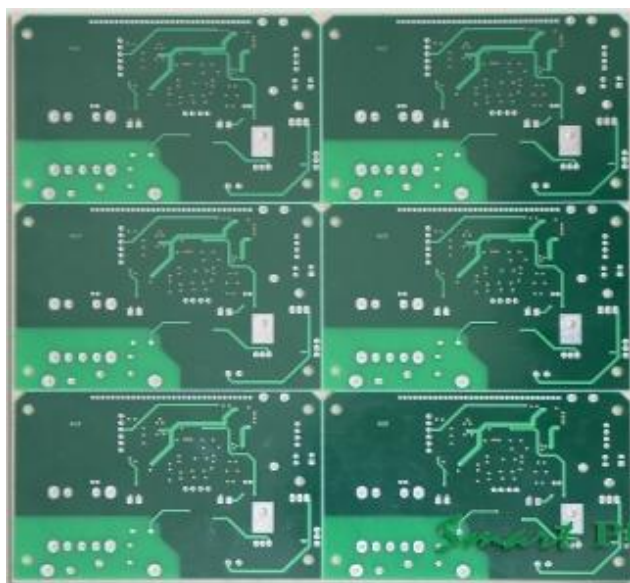
	
HASL Finish 4 Layer / 1.6 mm Top Side	HASL Finish 4 Layer / 1.6 mm Bottom Side
	
HASL Finish 6 Layer / 1.6 mm Top Side	HASL Finish 6 Layer / 1.6 mm Bottom Side



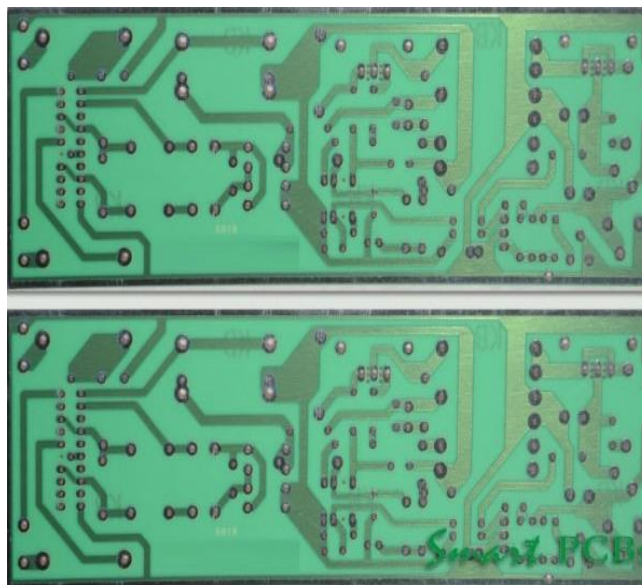
Various HYBRID Circuits



HASL Finish 2 Layer / 1.6mm (with Tab Routing)



HASL Finish 4 Layer / 1.6mm (with V Scoring)



HASL Finish 1 Layer / 1.6mm (CEM1)

Production Environment



Dry Film Pre Treatment



Screen Printing



Dry Film Exposing



CNC Drilling



Dry Film Developing



Pattern Plating Line



Film Stripping



CNC Routing



Multi Layer Press



Flying Prob Tester



Automatic Optical Inspection



Solder Mask Exposing

Our strategic plan is to provide our customers with sustainable competitive advantage of our products showing complete commitment from initial quotation to delivery of order and beyond. Moreover, this assures our customers that SmartPCBs continues to meet the quality conscious approach they have grown to expect.

Contact Person

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In the interest of constant product improvement, specifications are subject to change without notice.