

## CAPABILITIES

### SPECIAL CAPABILITIES:

- High density PCB up to 18 Layers
- Board thickness 0.008 to 0.250
- Blind buried vias
- Plug and plated vias ( Via-in pad )
- Ball Grid Array (BGA) patterns
- Control Impedance
- Castellated Plated holes and edges
- Epoxy via plug
- Multiple Surface Finish including Gold, Silver, OSP, Hasl & Lf Hasl
- Exotic Materials including Aluminum
- ISO & ITAR Certified

### BOARD TYPES:

- Polyimide
- Teflon
- Flex, Rigid-Flex
- High Temperature FR-4
- Aluminum clad
- Rogers

### PROCESSING:

- Maximum number of layers 18
- Minimum circuit width .004
- Smallest hole .008
- Maximum finished copper 7oz
- Multiple LPI & Nomenclature colors in stock
- Statistical Process Control (SPC)

### ENGINEERING SERVICES:

- Integrated CAM and photo plotting
- Array Design / Penalization
- Design For Manufacturing (DFM)

*"Rapid Prototypes through Production"*

## QUICK TURN AROUND

Single Sided to 6 Layers - 24 Hours  
8 to 10 Layers - 48 Hours  
12-18 Layers - 72 Hours  
Above 18 Layers - Call Us

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## COMPANY PROFILE

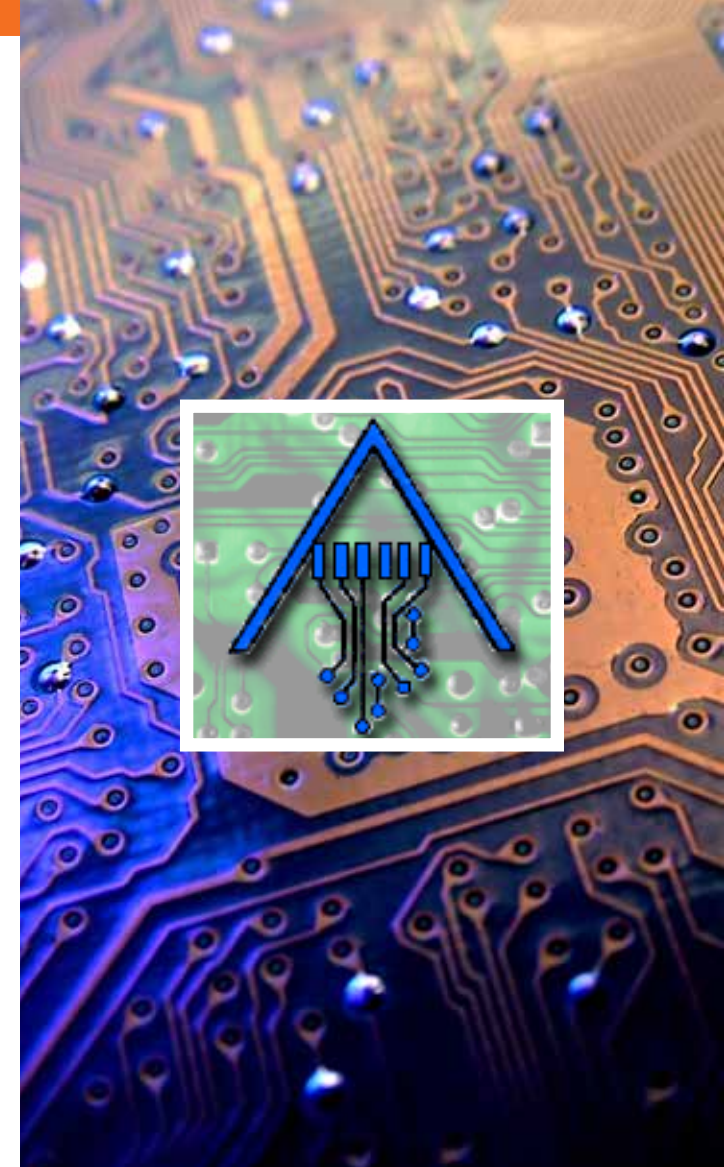
Ampel Inc. was established in 1983 as a quick turn prototype shop servicing the Chicago area electronic manufacturing companies printed circuit needs with a commitment to quality, reliable service and customer satisfaction. We now service customers nationwide offering rapid prototyping service through production deliverers of all types of Printed Circuit Boards.



925 Estes Ave., Elk Grove Village, IL 60007

Phone: (847) 952-1900 Fax: (847) 952-0064  
www.ampelinc.com • sales@ampelinc.com

Printed Circuit Board Manufacturer



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## CUSTOMER SERVICE & ENGINEERING

Since Ampel, Inc. values its customers, we have created a customer service environment which responds quickly to your needs. We offer the same high level of service whether you need a 10,000 piece order with a standard turnaround or a 10 piece prototype delivered in 24 hours. For your convenience, contact us by phone, fax, or e-mail through our home page.

Our high level of attention does not stop with customer service and order entry. Our experienced pre-production and CAD department is equipped with the latest industry tools to ensure your job is thoroughly checked and engineered to provide a superior end product. In addition we can provide a multilayer construction assistance and consultation on exotic materials, panelization, and design for manufacturability. Take advantage of our experience.

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## MANUFACTURING

Our goal of continued growth is achieved by supplying an exceptional product to our customers. To aid in this, we continuously invest in capital equipment and facility improvements. This results in process improvements, high quality, reduced labor and faster deliveries. The net result: a cost competitive, quality product supplied to our customers when they need it.

## QUALITY

Our quality organization works closely with all areas of manufacturing to produce consistent quality every time. Mechanical operations are monitored and statistically sampled to insure parts are made to customer prints. Our chemical laboratory constantly analyzes all cleaning, activation and plating chemicals to effectively predict processing results and to guarantee that the end product meets specified requirements. While we are motivated by on-time delivery, we are controlled by the quality that our customers demand.

