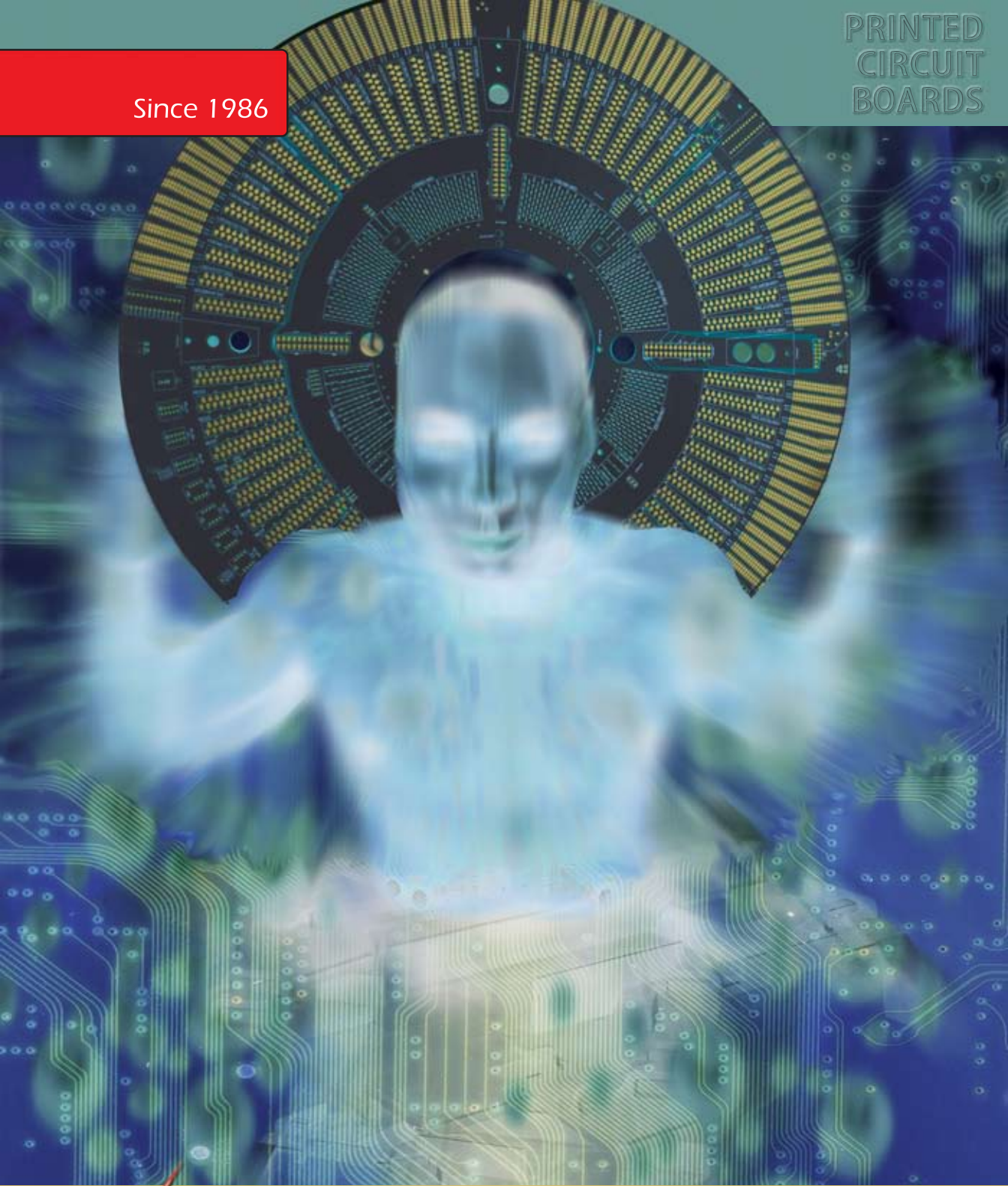


PRINTED
CIRCUIT
BOARDS

Since 1986



imagineering inc...where *Innovators* shop!

My philosophy for Imagineering, Inc. has not changed since the inception of the company 20 years ago. Our number one priority at Imagineering has always been to understand what the customer values, evaluate the customer's needs, and deliver the best in class service and products within the customer's constraints...old fashioned philosophy in a high tech environment. With this philosophy, we've grown from prototype fabricators in the 80's to a company that can help you take your ideas from prototype to production with one single point of contact. Last year alone, we successfully took over 9,000 prototype parts to production.

In the future, Imagineering will continue to strengthen its existing advantage in this competitive market by locating and developing advanced techniques, increasing the precise automation of mass production, exploring distinctive markets for highly value-added PCBs, introduce global logistics management, and open up both domestic and overseas markets.

Imagineering promises to continue to listen and work hard for your business and looks forward to better serving all of your printed circuit board needs, whether it be simple prototype, complex multilayer, or complete production run. Whatever your need, we'll be there along the way to listen, understand, and deliver in a timely manner.

Sincerely,

Parvin Dhanji

Ms. Parvin Dhanji
President / CEO



Founded in 1986, **Imagineering** has been devoted to being a value-added PCB company supplying rigid and flex double-sided and multilayered PCBs.



Imagineering, Inc. is ready to manufacture RoHS compliant PCB's. We currently use Isola & Nanya products to manufacture our RoHS compliant PCB's. Although not limited to, we are always looking for more product options to better serve you.

Our High Tg material is specially formulated for superior performance through multiple thermal excursions, passing 6x solder tests at 288 degrees C. It is also optimized for enhanced drilling performance allowing high aspect ratio holes of less than or equal to 10 mil. Its unique resin chemistry provides CAF resistance with the benefit of long-term reliability of boards built with small feature designs. Along with these attributes, it brings improved productivity with its fast cure system while using current fabrication techniques.

The Restriction of Hazardous Substances (RoHS) Directive prohibits the use of the following substances:

- Cadmium
- Hexa-valent Chromium
- Lead
- Mercury
- Polybrominated biphenyls (PBB)
- Polybrominated biphenylethers (PBBE or PBDE)

Our RoHS capabilities include:

- High Tg/High Performance FR-4 Material
- Halogen Free Solder Mask
- Lead Free Surface Finishes

The following are just a few of the finishes **Imagineering, Inc.** offers:

- Immersion Tin (Sn), ● Immersion Silver (Ag), ● Immersion Gold (Au)
- ENTEK/OSP (Organic Solder Preservative)



SERVICES		SOLDER MASK	
Same Day Prototype		SMT Minimum Pad Spacing	.002"
Instant On Line Quote		Line to SMT Minimum Space	.004"
Prototype to Production		Minimum Soldermask Rib	.004"
Fast Turn Production			
Single / Double / Multi-Layer		SURFACE FINISH	
Up to 40 Layers		HASL Minimum Thickness	.0015"
Controlled Impedance (Differential Pair)		HASL Maximum Thickness	.0300"
Selective and Bondable Gold		Electrolytic Hard Gold Max. Thickness	50 u. in.
Tab and Route		Electrolytic Soft Gold Max. Thickness	30 u. in.
Scored Panels		Electroless Gold Maximum Thickness	30 u. in.
Sequential Blind and Buried Vias w/Controlled Depth		Immersion Gold Thickness	2-5 u. in.
Electrical Testing		Immersion Silver Thickness	3-4 u. in.
UL Approved		Immersion Tin Thickness	30-50 u. in.
		Entek (OSP)	Co-Planarity = Copper Plate
SHOP TOLERANCE CAPABILITIES		MATERIALS AVAILABLE	
Minimum Line Width	.003"	FR-4 Standard Multifunctional 130 Tg	
Minimum Space	.003"	FR-4 High 170 Tg	
Min. Space, PCB Edge to Conductor	.010"	Getek 170 Tg	
Layer-to-Layer Registration	+/- .005"	NAN-YA NPG-R/NPG-TL	
Maximum Finished PCB Thickness	.300"	ISOLA 410	
Board Thickness Tolerance	+/- 10%	Rogers	
Minimum Dielectric Thickness	.0025"	Thermal Clad (including Aluminum Bonding)	
Maximum Number of Layers	40	Nelco 4000-13 160 Tg (Call for information)	
Maximum Copper Weight	6 oz.	Allied 408 180 Tg (Call for information)	
		Polyimide 230 Tg (Call for information)	
DRILLING CAPABILITIES		BT Epoxy 180Tg (Call for information)	
Minimum Plated Hole Size (Finished)	.004"	Teflon (Call for information)	
Tolerance - Plated Hole Size	+/- .003"	Taconics (Call for information)	
Mechine Minimum Drill Hole Size	.008"	Arlon (Call for information)	
Laser Minimum Drill Hole Size	.005"	Others including Flex (Call for information)	
Maximum Aspect Ratio	9:1	**RoHS Compliant / Lead Free Assembly	

COMBINED CERTIFICATIONS:
UL94V-0, ISO-9002, QS-9000, ISO-14000



5 Competitive Advantages

PRINTED CIRCUIT BOARDS

Overseas Manufacturing

Imagineering, Inc. enjoys the reputation of being one of the most experienced & successful offshore PCB suppliers.

CAM USA

Our Illinois based DFM office has eight fully staffed CAD / CAM stations. Within hours of receipt of new Gerber files, our highly experienced DFM engineers conduct thorough and precise analysis.

Quick-Turn Production

Imagineering offers small volume production in 5-6 days and medium to large volume production in 2-3 weeks.

Overseas Manufacturing

Shipping Logistics

With Imagineering there is no need to deal with multiple suppliers, language barriers, customs headaches, and shipping logistics. We do it all for you ..and deliver door-to-door

Significant Price Saving

Our global buying power combined with the capabilities of our overseas manufacturers translate into tremendous savings to our customers.

CAM USA

Quick-Turn
Production

Door to Door
Delivery

Significant
Price Saving

Capabilities

- .003" trace/space
- .005" minimum drill size
- up to 40 layers
- multiple surface finishes
- Isola, Rogers, Polyimide
- Aluminum Bonding
- FR-4 materials
- ...and many others



Over the past 5 years, 60,000 prototypes have been successfully delivered from overseas to 4,500 customers



www.PCBnet.com TEL: 847-806-0003 FAX: 847-806-0004
sales@PCBnet.com

Manufacturing Capabilities

PRINTED CIRCUIT BOARDS



With one phone call we can take your project from prototype to production

