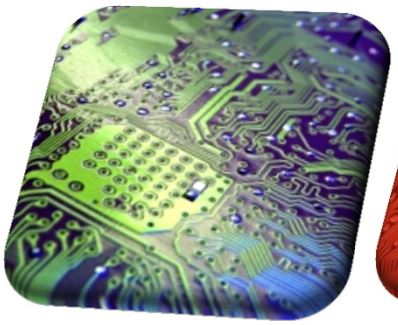
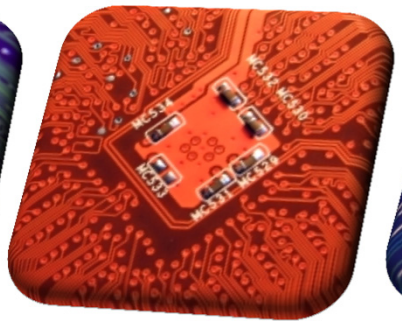
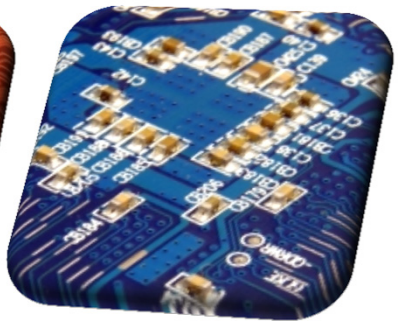
P.W. CIRCUITS Ltd

At the forefront of technology

Manufacturer of Printed Circuit Boards







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PCB Materials & Products

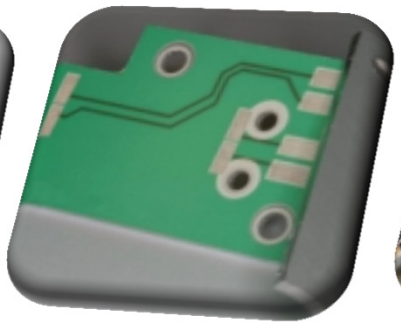
Materials

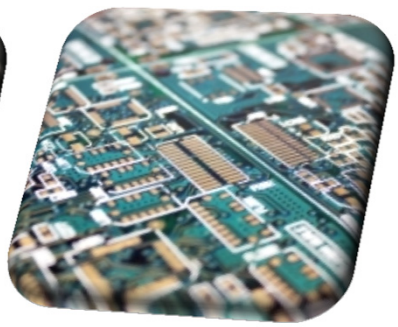
- ✓ FR4
- ✓ High Tg FR4
- ✓ Polyimide
- ✓ PTFE
- ✓ Ceramic (Rogers, Arlon, Taconic etc)
- ✓ Liquid Crystal
- ✓ Aramid
- ✓ Ceramic (Alumina / AIU)
- ✓ Foams
- ✓ Polyimide film / Polyester Film
- ✓ Metal backed (Aluminum) (Copper)
- ✓ Thermobonding Adhesives
- ✓ Rogers
- ✓ Arlon
- ✓ Taconic
- ✓ Omega Ply

Products

- ✓ Conventional / Single Sided
- ✓ PTH / Double Sided
- ✓ Multilayer
- ✓ Flexibles
- ✓ Flexi-Rigid
- ✓ Metal backed
- ✓ Metal cores
- ✓ Buried Via's
- ✓ Copper filled Blind Via's
- ✓ Controlled Impedance
- ✓ Sequential builds
- ✓ Copper / Invar / Copper
- ✓ Heavy Copper
- ✓ Embedded Passives
- ✓ Heatsink Bonding
- ✓ Microwave / RF

We hold stock of a wide range of printed circuit board materials. If the material / product you require isn't listed then please contact us to discuss your requirements.





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Approvals & Environment

P.W. circuits Ltd are at the forefront of technology and aims to provide excellence in the printed circuit board industry. We continue to seek the most innovated strategies to deliver solutions to our clients. This strategy is complimented by the continued investment in both systems and product approvals.

System

- ✓ BSENISO 9001:2008

UL796

- ✓ E143749

Product Approvals

- ✓ IECQ-CECC
- ✓ IPC-6011 CLASS 3
- ✓ IPC-6012C CLASS 3
- ✓ IPC-6013B CLASS 3

Product Approvals

- ✓ BS123100-003
- ✓ BS123200-003
- ✓ BS123300-003 (32 Layer)
- ✓ BS123600-003 (10 Layer)

Environmental Policy Statement

PW Circuits Ltd will continue to conduct all aspects of it business in a manner that ensures care and respect for the environment. We are committed in minimising the impact of our activities on the environment and believe that this policy will bring a safe healthy workplace for our employees and benefits our customer's and society.

The key point in the strategy are.

- ✓ Meet or exceed all the environmental legislation and regulations that relate to the company.
- ✓ Minimise waste by evaluating operations and ensuring they are as efficient as possible.
- ✓ Provide on going training to all employees to ensure an understanding of their environmental responsibilities and encourage them to work in an environmentally responsible manner.
- ✓ Promote efficient use of materials and resources throughout our facility including water, gas, electricity, raw materials and other resources, particularly those that are non-renewable.
- ✓ Actively reduce waste by promoting recycling internally and amongst suppliers.
- ✓ Strive to continually improve our environmental performance and minimise the social impact and damage of activities by reviewing our environmental policy in light of our current and future planned activities.

BSI British Standards

BSI UKAS QUALITY MANAGEMENT 003 FM91440

IPC

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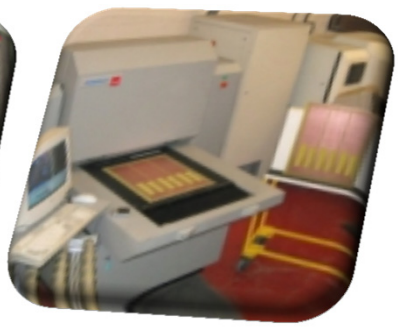
About P.W. Circuits

A privately owned SME, established in 1968, that prides itself in being flexible and dynamic, working with a plethora of diverse customers. Employing a dedicated workforce at our 45,000sqft facility in the Midlands we deliver high quality to such brands as:

Our business has invested time and expertise to build a wealth of knowledge, specializing in supplying advanced manufacturing solutions for the electronics industry to UK, Europe and Worldwide Markets.

A key reason for our continued success is being privately owned, allowing greater flexibility in our approach to the market place and clients. Being agile means we are able to stay at the forefront of technology and following the markets has enabled the business to diversify, which has enriched the capabilities and knowledge in delivering solutions to our clients.

Contact us today so we can quote all your PCB requirements.



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Capabilities

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Capabilities	Standard Production	Advanced Production	Development
Layer Count	1 – 12 Layers	13 – 32 Layers	> 32 Layers
Max Board Thickness	2.40mm	6.00mm	10.00mm
Min Board Thickness	0.20mm	0.10mm	0.075mm
Copper Thickness	Up to 3oz 105 µm	Up to 15oz 525 µm	> 15oz
Track & gaps	0.005" 0.13mm	0.003" 0.076mm	0.002" 0.05mm
Annular Ring	0.006" 0.15mm	0.004" 0.10mm	0.002" 0.05mm
Minimum Drill Hole	0.25mm	0.15mm	0.10mm
Aspect ratio	8 : 1	15 : 1	18 : 1
Blind vias	0.40mm	0.12mm	

Surface Finishes	Standard Production	Advanced Production
HASL (Tin Lead Non RoSH)	5.0 µm – 35.0 µm	
HASL (Lead free RoSH)	5.0 µm – 35.0 µm	
Immersion Silver	0.15 µm – 0.20 µm	
Electroless Nickel	3.0 µm – 5.0 µm	
Immersion Gold	0.05 µm – 0.08 µm	0.05 µm – 0.12 µm
Electroless Palladuim	0.20 µm – 0.50 µm	
Electrolytic Nickel	3.0 µm – 5.0 µm	3.0 µm – 7.0 µm
Electrolytic Gold	1.5 µm – 3.0 µm	0.5 µm – 5.0 µm
Pure soft Gold	1.0 µm – 5.0 µm	
Organic Solderability Preservatives (OSP)	0.10 µm – 0.20 µm	

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Contact us

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