

PCBs FROM SINGLE SIDED TO OVER 50 LAYERS



DALEBA
Printed Circuits

BESPOKE STOCK MANAGEMENT
RELIABLE PARTNERSHIPS

GLOBAL LEADERS IN PCBs

Supply & Stock Management Specialists



Effective sourcing of Printed Circuit Boards (PCBs) requires commitment, time, and experience. Matching the technical and commercial requirements of clients to the capabilities of a manufacturing plant is a vital part of what we do.



We provide a total PCB Supply and Stock Management solution with over 60 years of PCB engineering, manufacturing, and logistics experience in our group. We can attribute our success to our expertise and commitment to quality.



To build on our enviable track record of growth and smart investment, we will continue to provide unrivalled 'Excellence in Logistics' to all our clients. In doing so, we will maintain our place as one of the leading forces in the PCB industry.



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Daleba, GSPK & TCL Elektronika

A strong group of UK based companies currently turnover over £31m -



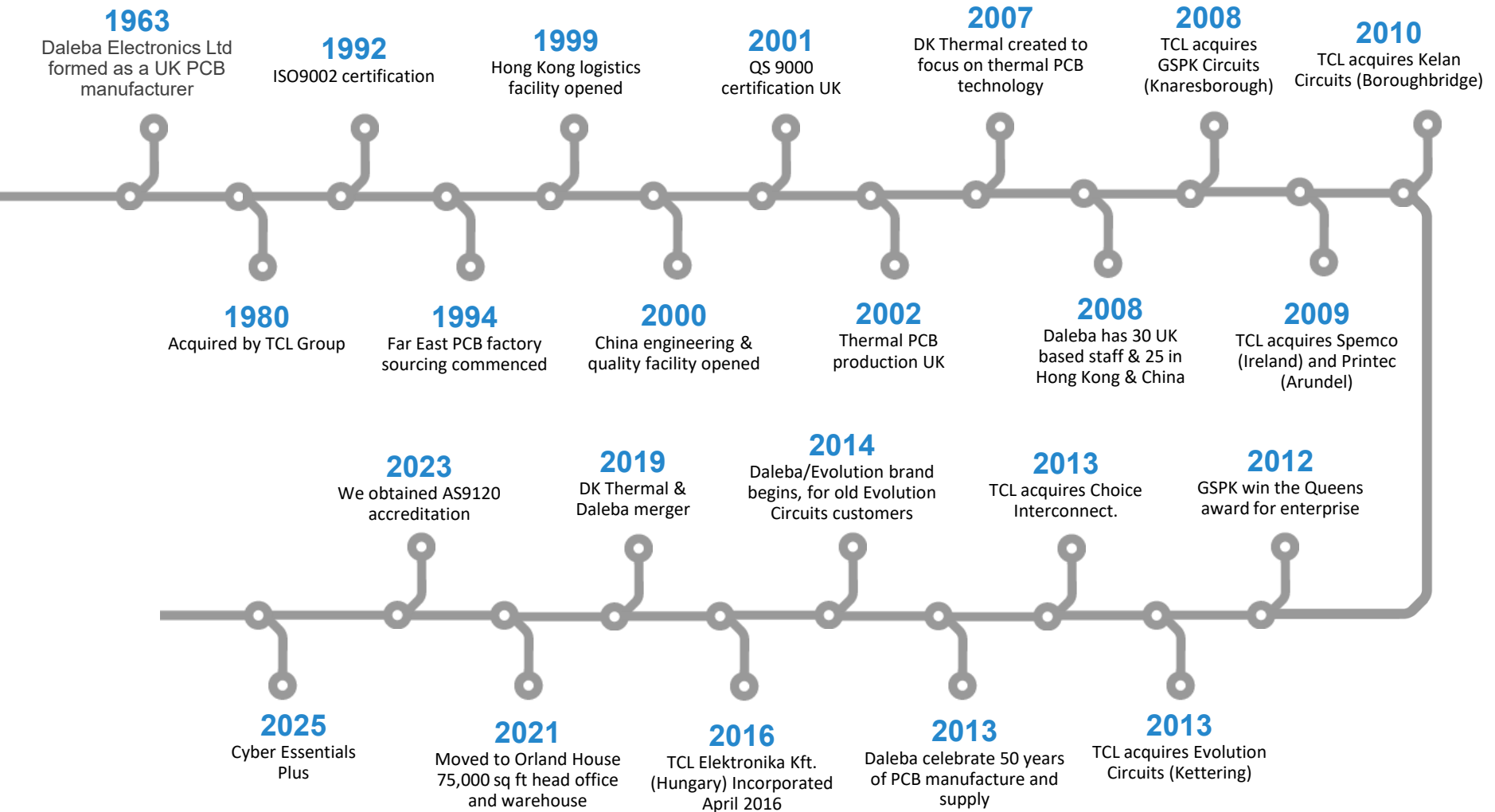
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ENGINEERING

Our dedicated engineers will focus on finding the best PCB solutions for your needs

Our engineering services include design for manufacture

We have UK and China Engineering Teams and all PCB Manufacturing Specification issued to partners

We perform full engineering reviews prior to production and individual specifications are issued for each PCB. Inspection reports received for each batch produced



STOCK MANAGEMENT

Bespoke stock management is our speciality, which means we'll find solutions for every requirement.

Our stock management team will monitor your usage against forecasted levels to ensure that production lines are kept running. This includes consignment stock, buffer stock, Kan Ban, JIT and ship to schedule.



GLOBAL LOGISTICS

Stress-free, on time, and without any of the headaches that logistics can cause: that's how we deliver!

Our range of shipment options ensure you receive your order in the right place and at the right time, anywhere in the world.

ADDING VALUE

- ✓ Client cost benefits – without the cultural & communication challenges
- ✓ Our own skilled Engineering & Quality staff in both Europe & Asia
- ✓ In depth knowledge of Chinese PCB Fabrication partners (Capabilities/Approvals/Expertise)
- ✓ “Best-fit” factory selection – multiple PCB Fab partners
- ✓ Tried & tested logistics – local contact points, Heathrow, Stansted & London Gateway.
- ✓ Quality underwritten
- ✓ All PRC factory partners are subject to regular annual audits by our staff and our customers – supply-line transparency



UK factory for up to 16 layers



Dedicated to “Lean” manufacturing”



Fast turnaround of prototyping and mass production with IATF 16949, ISO 9001:2015, UL: E53704 (US & Canadian approvals)



Quality Assurance Dedicated UK and China QA Teams



ISO 9001:2015 Certification
Factory IATF 16949 Certification



AS9120



Cyber Essentials Plus



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CAPABILITIES

UK or Far East Manufactured

- ✓ We can produce IMS, Ceramic, Long Boards and Heavy Copper PCBs.
- ✓ For your FR4 requirements, we can manufacture PCBs ranging from single-sided, to complex boards in excess of 50x layers.



In-house CAM engineering resources



Globally available laminate materials: Shengyi, Kingboard, Iteq, Ventec, Nelco, Rogers, Isola and other RF/High Frequency materials



Special requirements available such as: Selective gold plating for edge connectors, Peel-able solder resist, carbon pad printing



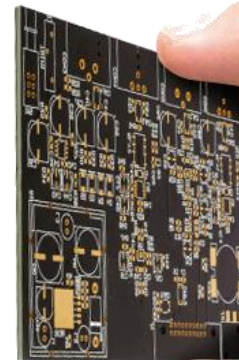
Full range of solder resist and ident colours to suit the application



All boards supplied 100% electrically tested



UL certification for the technology and layer count available



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CAPABILITIES

Heavy Copper – High Power Applications

- ☑ Heavy copper PCBs are printed circuit boards with 3oz or more of finished copper in the inner and/or outer layers
- ☑ We also have the capability of Extreme Heavy Copper – up to 30oz per layer for 2 layer applications
- ☑ The construction of a heavy copper circuit give boards a number of benefits



Increased endurance
to thermal strains



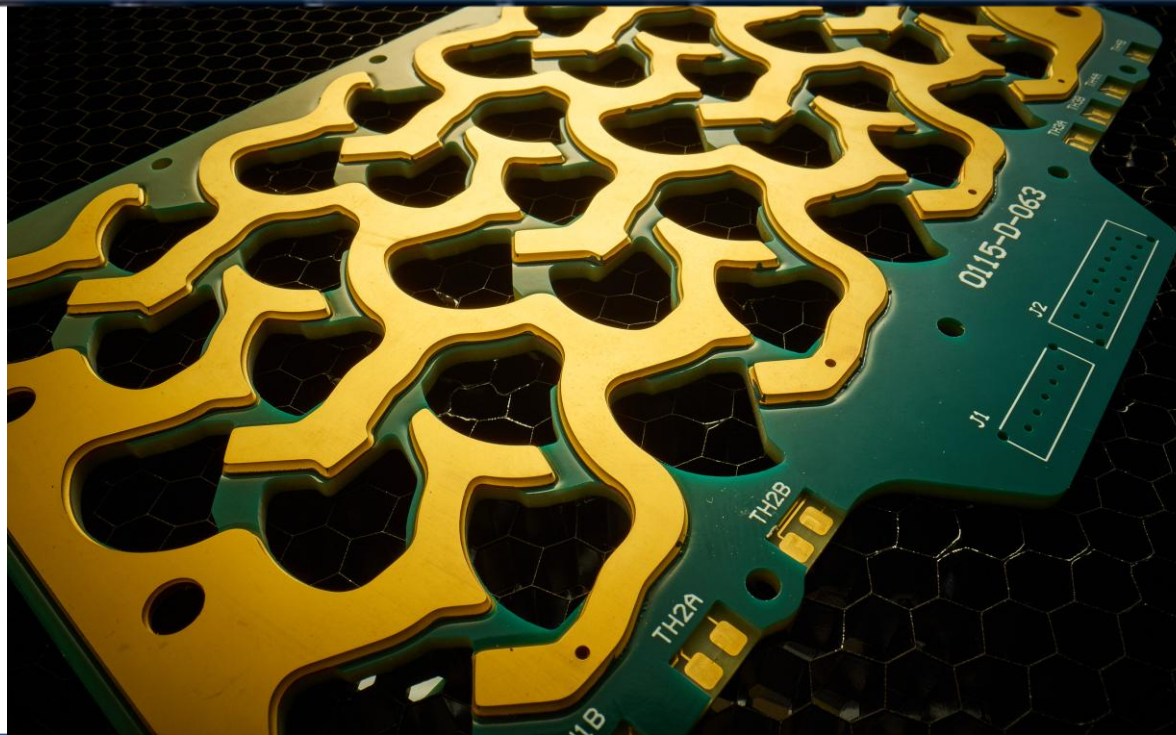
Increased current
carrying capacity



Increased mechanical
strength at connector
sites and in PTH
holes



Reduced product size
by incorporating
multiple copper
weights on the same
layer of circuitry



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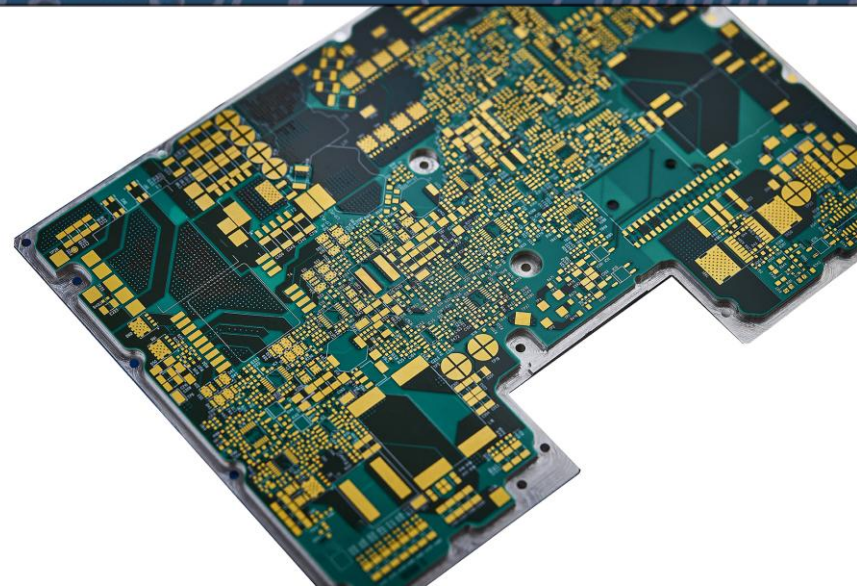
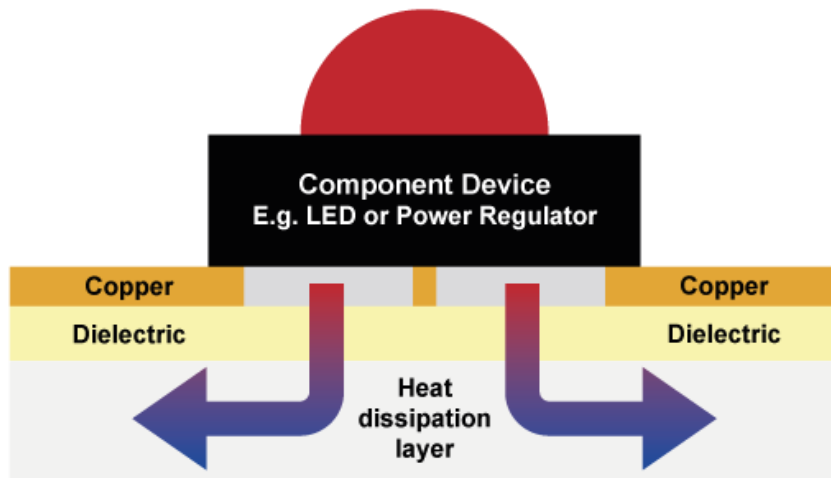


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CAPABILITIES

Metal Clad PCBs – Thermally Conductive

- ✓ Efficient heat transfer from component to heat sink.
- ✓ Aluminium or Copper based substrates with an electrically insulating, thermally conductive dielectric layer.
- ✓ Thermal Conductivity options ranging from 1W/mK to 9W/mK
- ✓ A range of material options: Ventec, Denka, Bergquist, Laird, Doosan etc.
- ✓ Applications include: Automotive lighting and power, street lighting, hazardous area lighting, LED luminaires, high power.
- ✓ Long boards capability – up to 1.5m in length



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CAPABILITIES

HDI PCBs – High-density Interconnect

- ☑ Up to 22 layers as standard, with advanced options beyond this for complex builds
- ☑ Minimum drill size down to 0.075mm for microvias and high-density interconnects
- ☑ Board sizes from 50×50mm up to 700×600mm, supporting both compact and large-format designs



Blind and Buried Vias: Connect select layers to save space.



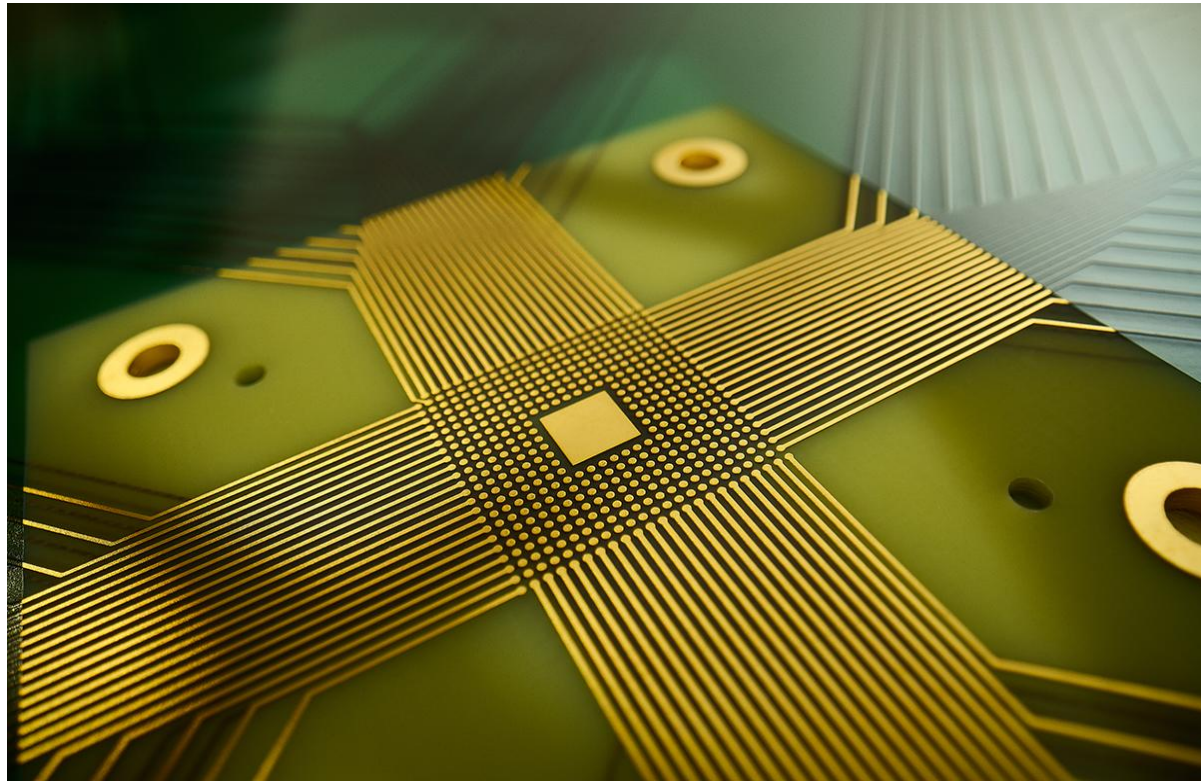
Fine Line Widths: Sub-100µm tracks for higher density.



Microvias: Laser-drilled vias under 150µm.



Multi-Layer Builds: Stacked or staggered layers for complex circuits.



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CAPABILITIES

Microwave & RF PCBs

- ✓ Layer count from 2 up to 50 layers
- ✓ Minimum track and gap of 0.075 mm / 0.075 mm ($\pm 10\%$)
- ✓ Dielectric thickness range: 0.1 mm to 3.0 mm
- ✓ Board size capability: up to 700 mm \times 600 mm
- ✓ Material thickness from 0.4 mm to 5.4 mm
- ✓ Use of low-loss substrates such as PTFE, ceramic, Rogers, Arlon, Taconic, Ventec, Isola
- ✓ Surface finishes including lead-free HASL, OSP, ENIG, ENIPIG, immersion tin and immersion silver



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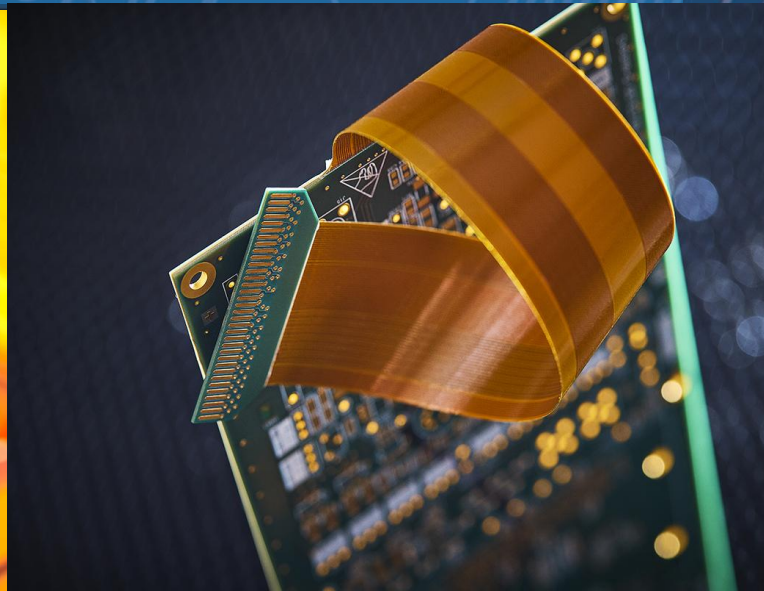
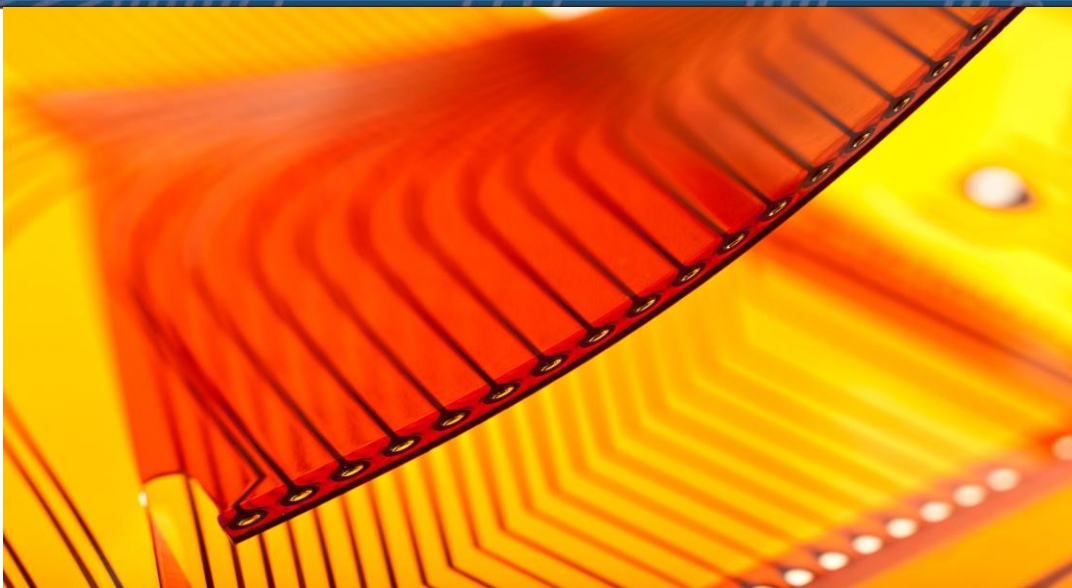


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CAPABILITIES

Flex & Flex-rigid PCBs

- ✓ Combination of rigid and flexible layers for compact, space-efficient assemblies
- ✓ Dynamic flexing options for applications with moving parts
- ✓ Thin polyimide materials to reduce weight and improve flexibility
- ✓ High-reliability interconnects removing the need for connectors and cables
- ✓ Fine line capability for dense circuitry and compact layouts
- ✓ Thickness options from ultra-thin builds to more robust multi-layer stacks
- ✓ Suitable for applications including aerospace, defence, medical, industrial and wearable electronics



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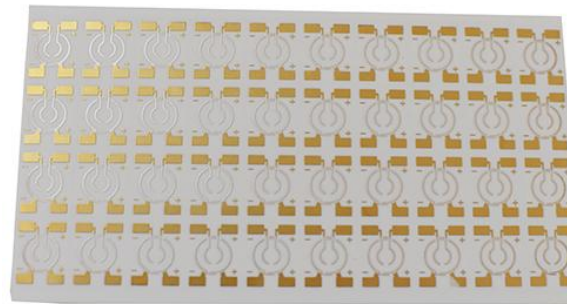
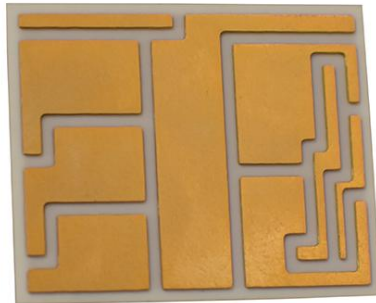
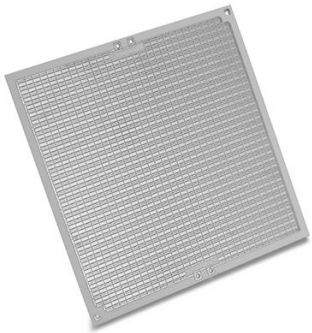
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CAPABILITIES

Ceramic PCBs

Superior heat dissipation is the key advantage that Ceramic has over more conventional materials used for PCB production.

- ✓ Superior values of Thermal Conductivity (up to 180W/m-K)
- ✓ High operating temperatures over 350°C
- ✓ Very Low CTE (Coefficient of Thermal Expansion)
- ✓ Suitable for high frequency applications due to low signal loss
- ✓ Possibility for Hermetic packages with 0% water absorption
- ✓ Alumina Oxide (Al₂O₃), AlN (Aluminium Nitride) and SiN (Silicon Nitride) options available
- ✓ DPC (Direct plated copper) & DBC (Direct bonded copper) used for circuitry



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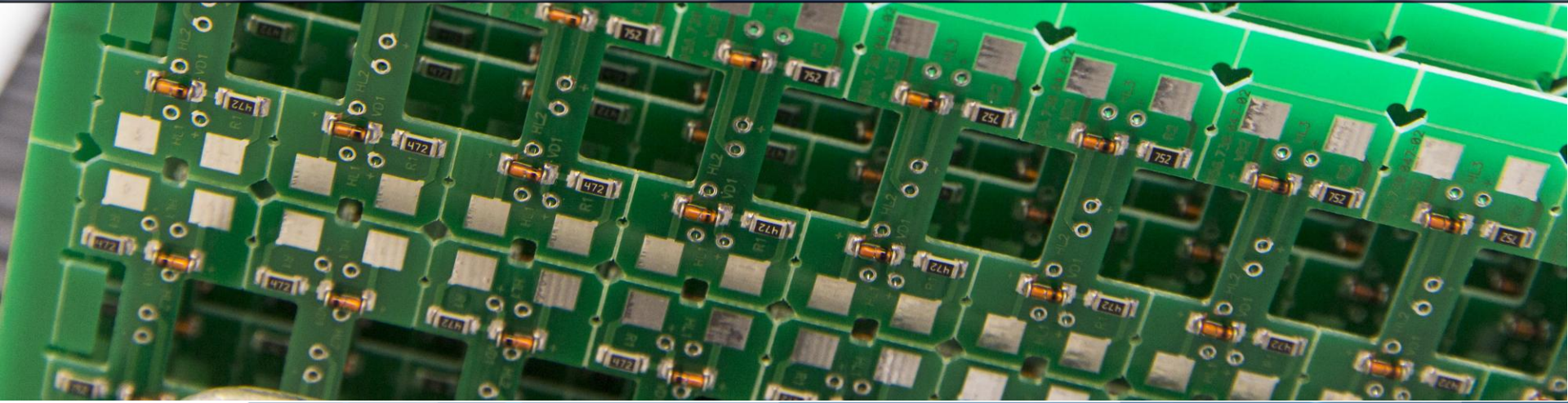


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Component Kitting Service

Daleba now offers a complete PCB and component kitting service that delivers the exact component kits required for assembly alongside your PCBs.

- ✓ We assemble all components against your bill-of-materials for ready-to-use kits.
- ✓ Components packaged and labelled in exact correlation with board deliveries.
- ✓ Leveraging our supply chain and quality systems to ensure reliable parts and full component history.
- ✓ Customised kit formats to support just-in-time and scheduled releases.
- ✓ Hold and release kits per your production schedule, reducing inventory risk.
- ✓ Kit verification, labelling, and documentation to streamline assembly and inspection.
- ✓ Component kits shipped with PCBs or separately, coordinated via our UK and Far East facilities.



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SMT Stencils

Daleba delivers high-precision laser cut stencils engineered for demanding SMT production and optimised print performance.

- ✓ Burr-free laser contours delivering superb aperture geometry and consistency.
- ✓ Full 100% scan check inspection for every stencil to ensure accuracy and repeatability.
- ✓ High-hardness stainless steel materials (grade 304 full-hard or fine-grain substitute) tailored for durability.
- ✓ Wide range of dimensions and thicknesses (from prototype size up to large format) to suit various board designs.
- ✓ Advanced end-treatments including mechanical polish, electro-chemical polish, and Nano-Pro Tek coatings for long life.
- ✓ Tight laser machine tolerances (axial precision $\pm 2 \mu\text{m}$) and large cutting range (up to 600×800 mm) for precision.
- ✓ Comprehensive offering for all stencil types — glued in frames, self-tensioning frames, via-fill stencils.

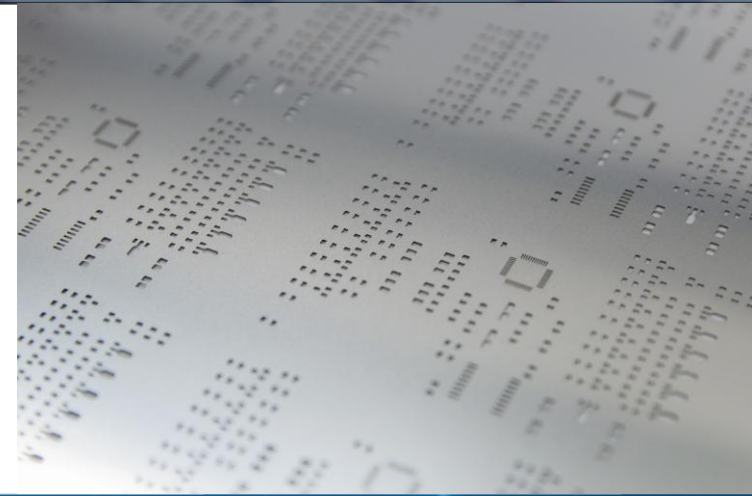
Cutting range (X/Y) 600 × 800 mm (23.6" × 31.5")

Maximum frame size (X/Y) 740 × 950 mm (29.1" × 37.4")

Maximum loose sheet size (X/Y) 650 × 850 mm (25.6" × 33.5")

Material thickness Up to 600 μm (23.6 mil)

Axial precision / Laser repetition rate $\pm 2 \mu\text{m}$ / Up to 45 kHz



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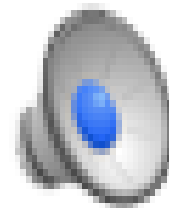
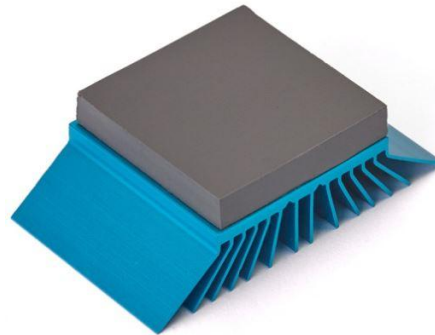


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EMI Thermal – Material Distribution and Conversion THERMAL INTERFACE MATERIALS



- ✓ Electronic components being driven harder, running at higher power
- ✓ This causes heat which can result in overheating, damage and failure.
- ✓ Thermal Interface Material (TIM) helps manage this issue
- ✓ Air is a poor conductor of heat, so air gaps need to be removed.
- ✓ TIM, a thermally conductive medium is used to fill the air gap between mating surfaces in electronic components.
- ✓ With no air gap the heat is transferred between the component and its heatsink or chassis.



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SUMMARY



UK & Far East supply capability



Single sided through hole, multilayer & flexi/flexi-rigid



Complete thermal management solutions



Prototyping UK & FE



Component Kitting



Metal Circuit Boards



Ceramic Circuits



Proven Logistics



Tried & tested inventory management models



Local, highly experienced, account management & support



European group offices in Spain, Hungary and Ireland



Global track record for delivering excellence

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Thank you for your time today!



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