



Manufacturing

Printed electronic circuit assemblies

We provide a **trusted** and innovative total manufacturing capability for highly complex electronic integrated systems, sub-systems, modules and printed electronic circuit assemblies where quality is paramount. Our ethos is to add value through our **people**, scale, capability and engineering know-how, allowing us to provide a vital advantage to our **customers** where it counts.

Engaging our manufacturing capability provides our customers the opportunity to leverage our expertise in the manufacture of robust, reliable electronics, delivering the best overall value in meeting customer requirements.

PEC assembly

We operate cutting edge manufacturing methodologies in the production of PEC assemblies and modules, through our people and technologies, to offer a world class manufacturing capability.

- Digital, analogue, microwave and RF products
- Class leading surface mounted technologies
- Lead through hole and mixed technologies
- Vapour phase
- Selective soldering
- Encapsulation
- Convection reflow
- Exotic board substrates
- Conformal coating
- Auto placement component verification
- Automatic wash facilities
- Automatic optical inspection
- Automatic x-ray inspection
- Repairs and upgrades

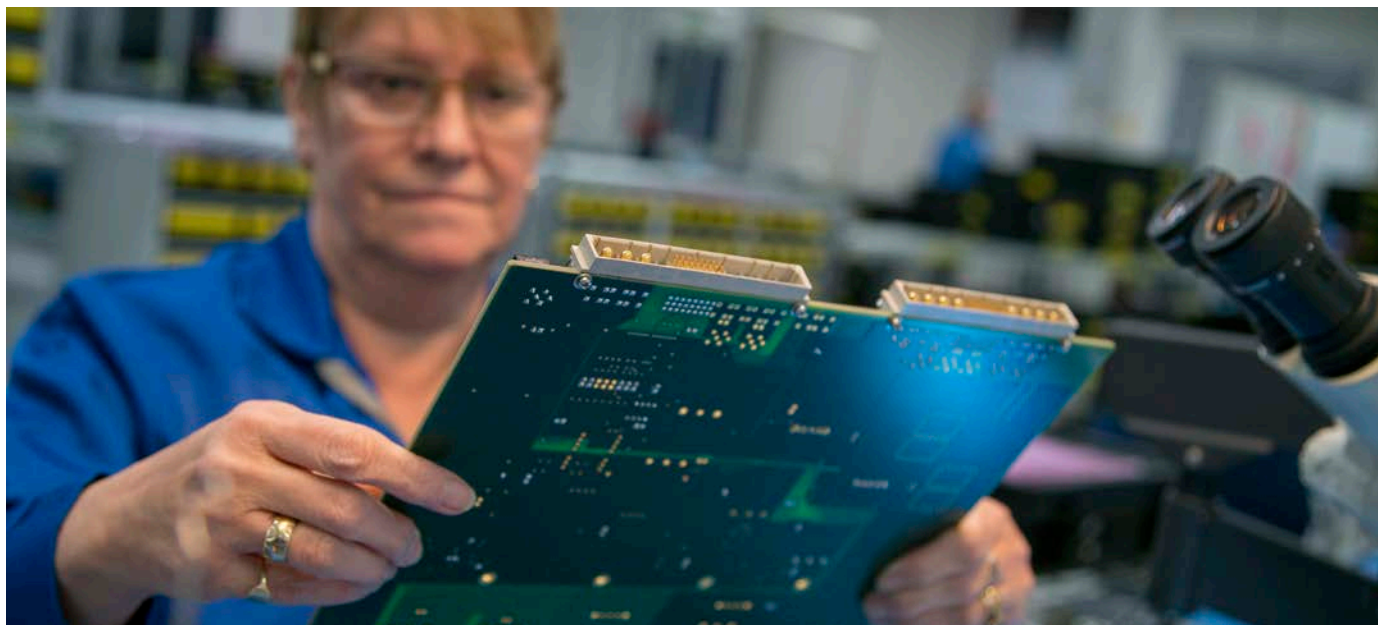
PEC assembly test

We offer an integrated test capability, designing and supporting test solutions from concept to the end of product life cycle.

- Design and manufacture of special to type ATEs
- Software programming and fixture interfacing for digital/ analogue Midata and PXI ATEs
- Boundary scan technology
- MDA (Takaya Roving Probe) programming and interfaces
- Wiring harness and backplane testing
- ESS vibration, thermal cycling and thermal shock
- Reliability and qualification testing

Adding value through design for manufacture and design for test

From product concept, we provide DfM/DfT advice to our customers on realisation, manufacturability, testability, yield improvement and risk reduction. On many programmes this has had a significantly positive effect on acquisition cost, through life cost and lead time.



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