

# Semiconductor Review

EUROPE & UK SPECIAL

MICRO  
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EDITION





## Pioneering PCB Services from Conception to Construction

The surge in sales for electronic devices during the pandemic created a huge demand for semiconductors. However, the COVID safety concerns at the time forced the semiconductor industry to operate at a less-than usual capacity causing a shortage of components. As a result, many manufacturers have been struggling with longer delivery times and supply chain disruptions. To help clients navigate this challenging landscape, ABL Circuits stepped up with its unique range of solutions. The company assists clients in modifying their existing products to avoid component shortages instead of relying on purchasing large quantities of inventory when it goes on sale. By doing so, they help ensure that their clients can maintain a steady supply of components and continue their manufacturing processes without major delays.

“We offer a turnkey solution or what we call a total PCB solution,” says Will Leverett, director of ABL Circuits.

With 40 years of experience in providing state-of-the-art UK PCB Manufacturing Services, today ABL Circuits is a leading printed circuit board company. The company differentiates itself from other manufacturers in how it handles the entire production process—design work, bare board manufacture, assembly, and box build—under one roof. This comprehensive approach enables them to regulate and streamline the production process while reducing shipping costs and time. Additionally, ABL carries out numerous tests internally, developing their own test jigs or using customer-supplied jigs to deliver fully functional products that have undergone rigorous testing.

To ensure high-quality products, ABL inspects boards at every stage of production and assembly, guaranteeing that their products comply with IPC Class 3 standards when required.

One of ABL's unique selling points is their ability to provide quick turnaround PCBs, ensuring fast lead times. They manufacture single-sided, plated through, multilayer, and aluminium-type PCBs. They also offer their clients the option to choose a third-party manufacturer for their PCBs for larger manufacturing. ABL uses a single off-shore PCB supplier which they know and trust and meets their manufacturing standards.

During the COVID-19 pandemic, the UK government launched a ventilator challenge to design ventilators that could save people's lives. At that time, ABL was designing and manufacturing ventilators for a UK manufacturer and approached the government with a proposal to redesign the ventilators to better suit their needs. After receiving approval

from the government, ABL redesigned the board and started production within just three working days. They delivered 15,000 Ventilator PCBAs to help those in need, making them one of the key manufacturers in the industry. This is in stark contrast to other companies that were still in the design phase.



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ABL not only serves the community through their products but also in their involvement with construction projects for the Bill Gates Foundation. Furthermore, they have expanded their services to include manufacturing consultancy, with companies like Airbus, assisting with their product design and manufacture.

Needless to say, ABL's flexibility and adaptability enable them to ensure timely product delivery, thanks to their highly experienced team. The company is proud to have employees who have been with them for more than 30 years, which speaks volumes about the business, its culture, and the working atmosphere. ABL's commitment to their customers over the decades has earned them a reputation as one of the country's most dependable and trustworthy PCB manufacturers, with a promise to deliver circuit boards "on time, every time." <sup>68</sup>



The annual listing of 10 companies in UK that are at the forefront of providing Micro Electronics services and transforming businesses in the region