Printed PCB resistors
Down to a fine art

INDUSTRY SECTORS
Automotive  Agriculture  Construction  Material handling  Industrial  Marine  Medical
We're known for the fine art of laser trimming, delivering the very low tolerances at very high volumes needed to keep pace with automotive innovation in electronics.

Actually, we’re old masters of every aspect of the printed PCB resistor process, eliminating programme risk as we deliver around the world from our plants in Europe and China.

We print on the main substrates, with the confidence to explore more.

We’re as easy with complex carbon as simple silver.

Dielectric? No problem.

We live, breathe and think ink. That’s why our customers value our input on product design, knowing we can make them as cost-effectively as possible without compromising the original specification.

And why they don’t have sleepless nights worrying about on-time delivery to the highest quality, even when they want us to vary product lines at high volumes.

+ Rotary, linear and stepped tracks can be freely printed.
+ Sizes and shapes can be tailored according to customer’s constraints and automatic production requirements.
+ Full sensor assemblies can be delivered based in PCB and special features such as complex gearing for multturn rotary or linear position sensing and special connector configurations.

Discover how world-class laser-trimming technology delivers high accuracy in carbon printing.

Freedom to build.
+ Low cost.
+ No insertion costs, errors or soldering problems.
+ Unlimited fixed and variable resistor combinations.
+ Voltage-divider calibration.
+ Special ohmic values.
+ Resistive values can be laser trimmed for accurate tolerances.
+ Wiper interfaces to your specification.
+ Low profile.

Application examples

AUTOMOTIVE
Climate control:
– Temperature.
– Air flow.
– Distribution.
Headlight position control.
Mirror position sensor.
Headlight position sensor.
Parking sensor controls.
Fuel tank level sensor.
Pedal sensors.
Instrument panel controls.
Dimmers for lighting.
Seat position sensors.
Steering column controls.

HOME APPLIANCES
Light dimmers.
Speed control for power tools.
Sewing machine controls.
Rotary switches.

INDUSTRIAL
Heavy-duty equipment.
Material handling equipment.
Marine grade sensors.
AG and farm equipment.

Once screened and cured, these resistive tracks can be individually laser trimmed to obtain very accurate tolerances in high volume.

We also offer custom wiper (contact) assemblies as standard products or we can design and manufacture according to customers’ bespoke design requirements.

This technology is ideal for three-wire voltage-divider (potentiometer) designs. Here, we offer in-process calibration and resistive (ohmic) process control, allowing for tight matching within lots and high precision voltage ratios between key points in the circuit.