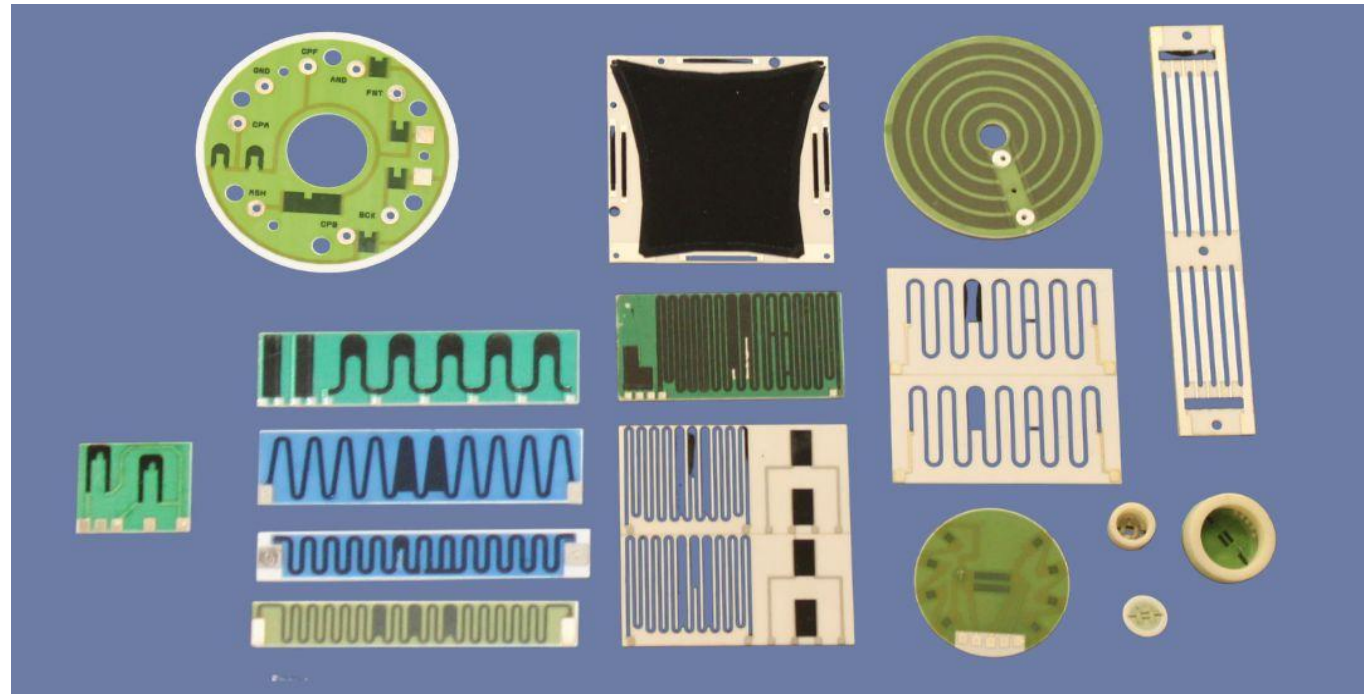


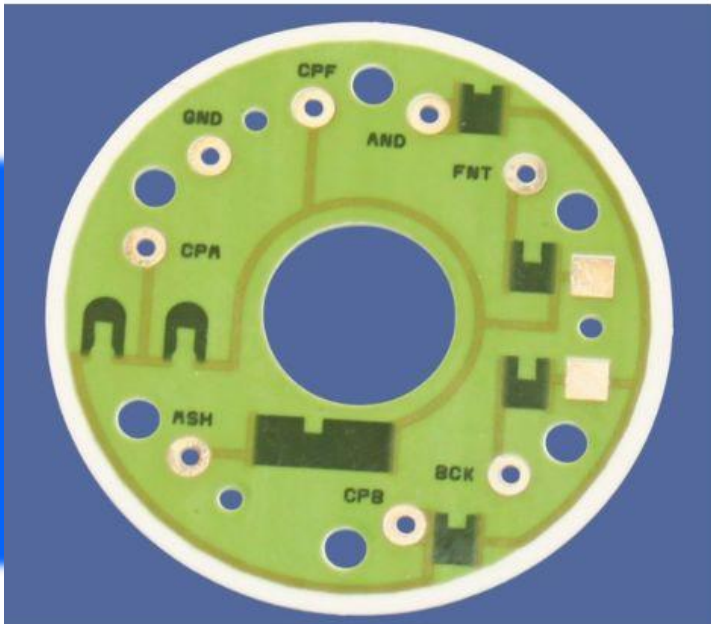


Specialist Thick Film Resistor Manufacturer

Thick Film Resistor Solutions

TSEC develop and manufacture custom resistors tailored to customer unique requirements.

Low to medium volume manufacture.



Long established supplier to:

- ❖ Major OEM
- ❖ Specialist manufacturers
- ❖ Distributors

About TSEC Ltd

40 years experience in Custom Thick Film Resistive Applications.

Specialist manufacturing expertise – materials and processes.

Experienced design team.



UK (Durham) Based

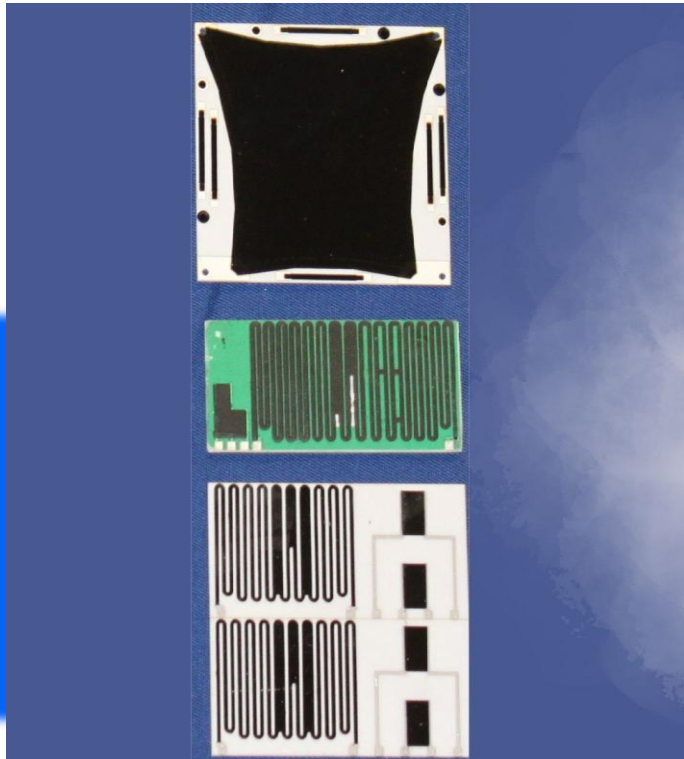
5,000 sq. ft. facility – optimised for:

- ❖ Prototyping.
- ❖ Low to medium volume manufacture.

Application Specific Resistors

Solutions - Tailored to customer unique requirements.

Specialising in high voltage and high power applications.



Obsolescence Solutions.

Thick Film Power Resistors

Thick Film High Voltage Resistors

Thick Film Resistor Networks

Thick Film Heaters

Capability Highlights

Ohmic ranges 1 Ohm to 1 GOhm

Tolerances $\pm 1\%$, specialist requirements to $\pm 0.5\%$

TCR ± 100 ppm / $^{\circ}\text{C}$, specialist requirements to ± 50 ppm / $^{\circ}\text{C}$

Power ratings: Low power to 250W range

Thick Film Printing process:

- ❖ Alumina - standard 0.635 mm
- ❖ Ceramic - standard 1.016 mm

Custom film printing process for special needs.

Focus Applications

Industrial Process Control – Motors, Power Supplies, Drives.

Sensors and IoT.

Specialist Defence & Aerospace.

Specialist Automotive.

Medical.

Suitable for general medical equipment

But **not** for:

- ❖ life-supporting or life-critical applications.
- ❖ implantable devices.





Tore Skjærstad

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Custom Thick Film Resistor Specialist