

UK specialist in RF, Microwave & mmW Components, Modules &
Test Solutions

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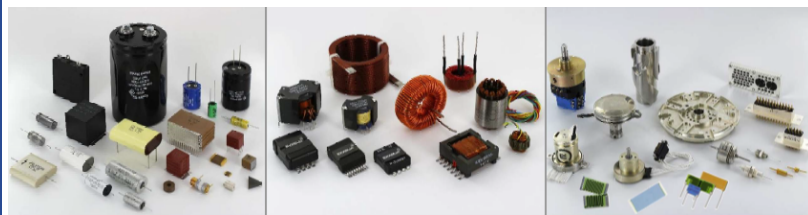


EXXELIA DESIGN AND MANUFACTURE PASSIVE COMPONENTS AND
PRECISION SUBSYSTEMS FOR HIGH-REL APPLICATIONS

CAPACITORS

MAGNETICS

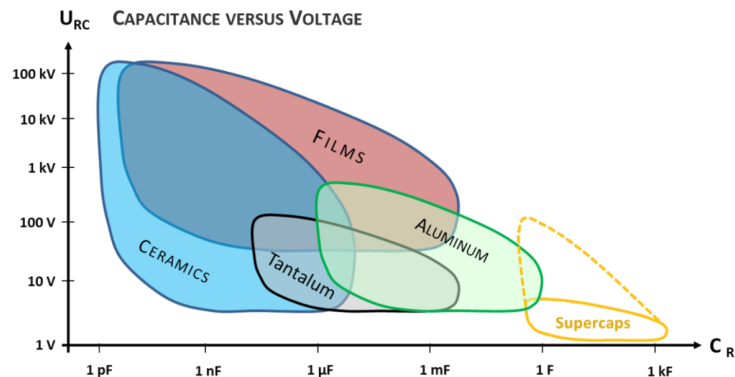
ELECTROMECHANICAL



Ceramic	Film & Mica	Tantalum	Inductors & SMD inductors	Rotors & Stators	Filters	Position sensors	Slip Rings
Aluminum Electrolytic	Material & FTC		Transformers & SMD transformers	Toroidal	Resistors	Micropen	Precision mechanics

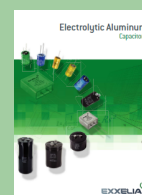
CAPACITORS

The chart below illustrates appropriate Capacitor technology based upon voltage and capacitance needs



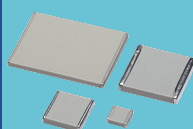
ALUMINIUM ELECTROLYTIC CAPACITORS

- Provides high capacitance values (up to 2.2F)
- long lifespan and can support extreme temperatures
- Suitable for Power electronics, such as Converters, Current Inverters and Switch Mode Power Supplies
- The Cubic SLP provides 2 x more capacitance density as any other available flat pack on the market



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CERAMIC CAPACITORS



- Provide low and high voltage components
- High capacitance, high temperature (up to 250°C), applicable in extreme environments such as Aviation engines, Oil exploration and Medical implants
- High voltage MLCCs offering significant size and space saving benefits
- HV Capacitors are particularly suited for use in high voltage power supplies, high voltage multipliers, high-Rel Military and Space applications



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FILM CAPACITORS

- Used in a wide range of markets and applications
- Applicable for high temperatures (Teflon) to power (polypropylene), energy conversion (polyester) or functions demanding a high level of stability (polycarbonate)
- Exxelia are the only Passive specialist with 200 °C rated PTFE Capacitor



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TANTALUM CAPACITORS

- Offer the highest charge per unit of volume combined with high reliability and durability
- Applicable for consumer goods and more specialised applications including Space vehicles, Aviation Electronics, Defence and Rail transportation.
- Exxelia supply both wet and cold Tantalum Capacitors for professional Electronics, Space and Aerospace Industries



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MAGNETICS



- Transformers, Inductors, PCB mounted or ruggedised assembly
- Toroidal, Linear & Planar Winding Technologies
- Low to medium power
- Heritage embedded applications, harsh operating environments, high reliability requirements and critical operating functions



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POTENTIOMETERS, ENCODERS AND SLIP RINGS



- Position Sensors, Potentiometers, Slip Rings, Rotary Joints and EMI Filters
- Optical Encoders sensing providing the highest resolution, operating speed, and reliability, as well as long life operation in most environments
- Rotary Joints/Slip Rings suitable for mixed technology, customisation and can accommodate DC Power, RF Signals, data, Coaxial, Waveguide and Fiber Optic channels
- Suitable for Hi-Rel applications



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[Learn more about Exxelia](#)

[Contact Melcom - for detailed specification, pricing & availability](#)

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