



High-Performance Resistors For Today's Most Advanced Medical Applications

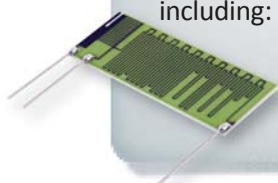
In a time of change in the medical technology market, the one constant that remains is improved clinical outcomes. Exxelia Ohmcraft's high-performance resistors enable medical product designers to improve more lives in more ways than ever before. Exxelia Ohmcraft's resistors are designed into products used in diagnosis, therapy, and prevention. From small, implantable, and non-invasive devices to large imaging equipment, Exxelia Ohmcraft's reliability makes it the resistor of choice for such critical applications.



High Voltage, High Reliability

Exxelia Ohmcraft's proprietary Micropen® precision printing technology produces superior resistor products ideally suited for medical applications, printing resistors with electrical characteristics that outperform our competitors. Our technology allows us to write a very exact serpentine pattern with more precise line width and length than conventional screen printing. Thanks to this patented technology, Exxelia Ohmcraft resistors are able to deliver unmatched performance, including:

- Superior TCR and VCR
- High voltage
- Excellent pulse-handling capability
- Very low noise
- High ohmic values
- Extremely tight tolerances to 0.1%





Medical Devices

Doctors, researchers, and device designers are finding that rapid fire bursts of precisely controlled electricity can alleviate symptoms in many illnesses and in many parts of the human body. Exxelia Ohmcraft is a leader in supplying resistors to the defibrillator industry and the implantable and minimally invasive product markets. Our unique Micropen® precision printing technology produces industry-leading pulse-handling capability for critical medical device circuits. Exxelia Ohmcraft's engineers work with device manufacturers to design and fabricate resistors for cardiovascular, neurology, and radiology market segments.

Products: HVC, SM, HVR, HVD, and Custom

Applications:

- External defibrillators
- Internal defibrillators
- Electrocardiogram (ECG) systems

Medical Instrumentation

The advent of more powerful and complex patient monitoring, diagnostics, medication delivery systems, and analytic tools has resulted in tremendous improvements in patient care. These patient-interface instruments require precise, highly stable components to ensure the accuracy of critical data needed by physicians, nurses, and diagnosticians.

Exxelia Ohmcraft's Micropen® precision printing is well-suited to meet the needs of this market. Our long-length serpentine pattern produces high-ohmic-value resistors with ultra-tight TCR and VCRs capable of producing the critical measurements and data required.

Products: HVC, SM, HVR, HVD, and Custom

Applications:

- Patient monitoring systems
- Medical power supplies
- Respiratory systems
- Drug delivery systems
- Drug pumps
- Prosthetics
- Medical cables
- Blood analyzers
- Laboratory analyzers
- DNA analyzers

Medical Imaging

Advances in medical imaging, from CT and PET scanners to X-ray and ultrasound, have led to more accurate and precise diagnoses. In turn, this leads to more effective therapies and preventions. Exxelia Ohmcraft's resistors will continue to be the component of choice for imaging applications based on proven reliability and functionality.

Imaging equipment market leaders rely on Exxelia Ohmcraft's leaded and surface-mount resistors to provide the precision and performance required by advanced imaging methods. Tightly controlled TCR and VCR, low noise, and enhanced ESD tolerance make Exxelia Ohmcraft's high-voltage and high-value resistors the component of choice in the medical imaging market.

Products: HVC, SM, HVR, HVD, and Custom

Applications:

- CT units
- PET scanners
- X-ray systems
- Radiography devices
- Ultrasound devices
- MRI devices
- Mammography devices
- Nuclear imaging systems



Exxelia Ohmcraft is the leader in high-performance resistor design and manufacturing. Our proprietary Micropen® precision printing technology enables superior precision thick-film resistors. Exxelia Ohmcraft can meet the most challenging medical specifications for high-voltage and high-value resistors.

To learn more, visit us online at www.exxelia.com

Or Contact: sales@charcroft.com +44 1591 612 408