



EXXELIA



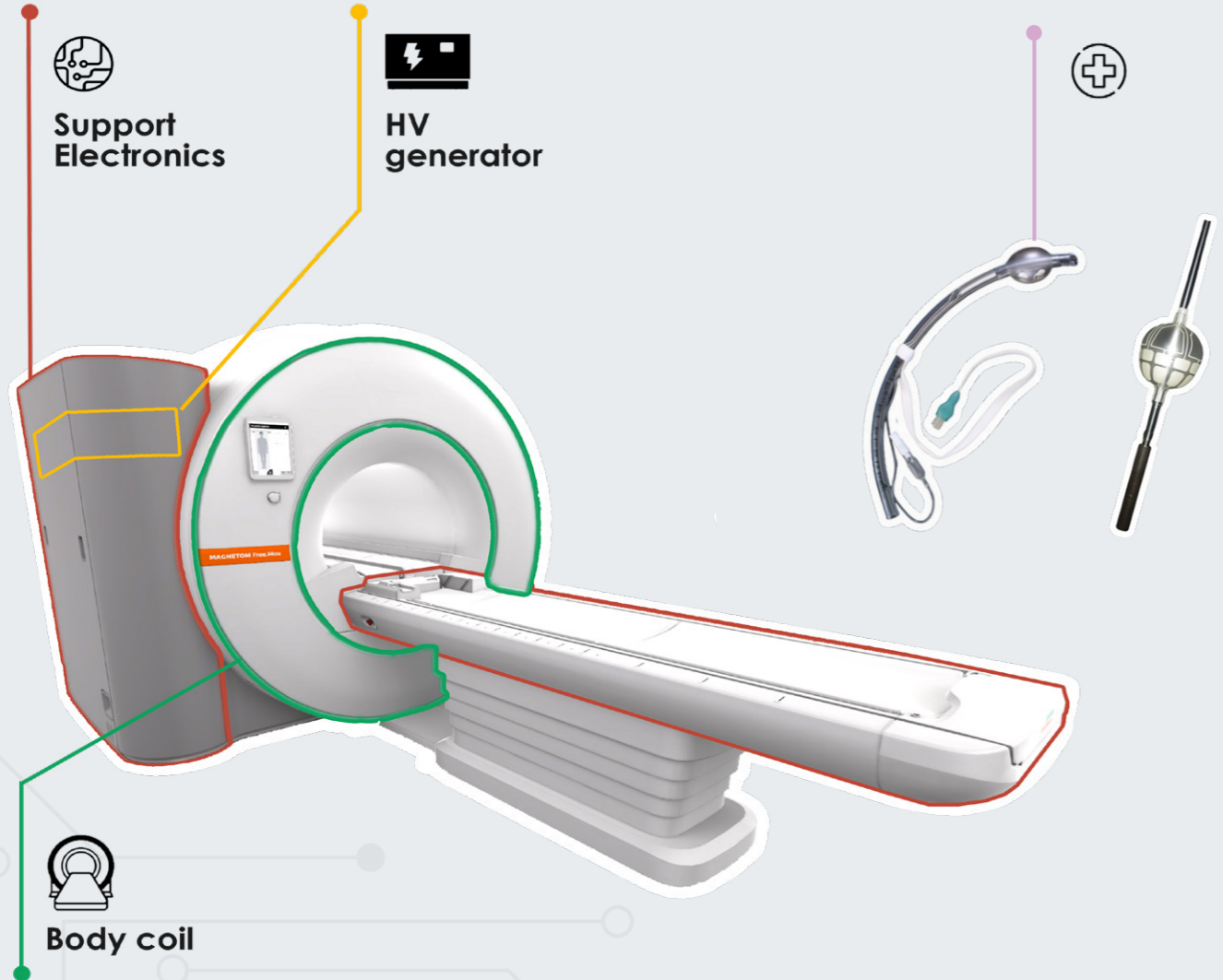
Inside

MEDICAL APPLICATIONS

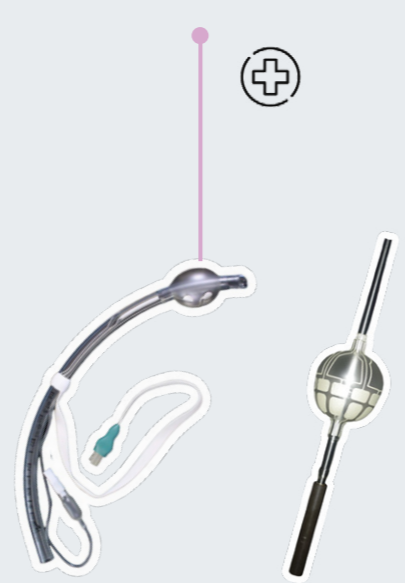
Exxelia provides numerous capacitors, resistors, smart sensors, magnetics and position sensors to Imaging equipment (such as MRIs, CT scans and X-rays) and other devices including laboratory equipment, external defibrillators, patient monitoring equipment and implantable devices.

Exxelia's products series are widely present in different Medical Imaging equipment: power non-magnetic ceramic high-Q capacitors are massively used by most MRIs manufacturers in the world, film capacitors, high-voltage transformers and precision potentiometers can be found in X-ray, CT scan and mammography equipment. High charge/discharge capacitors and resistors are used into external defibrillators while Exxelia's unique Micropen® printing technology is the key to transform disposable and surgical devices into smart medical sensors.

Medical Imaging

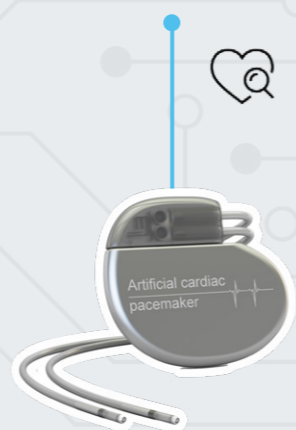


Medical disposables



External defibrillator & patient monitoring

Implantable device



PP Film capacitors

KPF-9
High DV/DT
Capacitance: 0,068 μ F - 1,5 μ F
Voltage: 850 V - 3 000 V
- 40°C to +85°

High ripple current

PG Series
Screw terminals
Capacitance: 68 μ F - 2,2 F
Voltage: 10 V - 630 V
- 55°C to +125°C

Extreme long lifetime

FELSIC HC
8 000h @85°C
Capacitance: 100 μ F - 2 700 000 μ F
Voltage: 10 V - 450 V
- 40°C to +85°C

High-Q MLCC

CH & SH Series
Low ESR
Capacitance: 0,1 pF - 1 000 pF
Voltage: up to 1 500 V
- 55°C to +175°C

P100 & NPO RF power capacitors

CL & CP Series
Ultra-low ESR/ESL
Capacitance: 1 pF - 10 000 pF
Voltage: 200 V - 7 200 V
- 55°C to +125°C

Endotracheal tubes

Micropen® Custom design
Integration of printed sensors onto endotracheal tubes for sensing temperature, nerve monitoring and patient monitoring

DFC- Energy Discharge

High charge / discharge cycles 2000 to 10,000
Capacitance: 32 μ F - 195 μ F
Voltage: 1 750 Vdc - 5 000 Vdc
- 40°C to +125°C

PP Film capacitors

MP-4
Self-healing property
Capacitance: 0,1 μ F - 6,3 μ F
Voltage: 700 V - 3 000 V
- 40°C to +85°C

High energy density

FELSIC 105/HV
High ripple current series
Capacitance: 100 μ F - 470 00 μ F
Voltage: 10 V - 450 V
- 55°C to +105°C

Long lifetime capacitors

SNAPSIC HV
Low ESR
Capacitance: 47 μ F - 2 200 μ F
Voltage: 160 V - 500 V
- 55°C to +105°C

High temperature capacitors

SNAPSIC 125
Long lifetime
Capacitance: 470 μ F - 47 000 μ F
Voltage: 16 V - 100 V
- 55°C to +125°C

High voltage Ceramic

C, TCK, TCF, TKD
Capacitance: up to 39 μ F
Voltage: 200 V - 10 kV
C48X dielectric :
excellent stability under voltage

Ablation & catheter ballons

Micropen® Custom design
Printed ablation features can be applied to deliver energy, with line widths down to 50 μ m and line spacing to 25 μ m with very low profiles

Powering Performance

Exxelia is valued for its ability to develop standard and custom products complying with the most demanding qualifications.

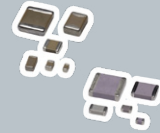
Contact us www.exxelia.com/en/contact



Snubber Film capacitors

RA Series

Capacitance: 1 nF - 4,7 μ F
Voltage: 630 V - 15 000 V
- 55°C to +85°C



MLCC Ceramic capacitors

CEC / CNC Series

Miniaturization
Capacitance: 10 pF - 12 μ F
Voltage: 10 V - 1 000 V
- 55°C to +125°C



EMC Filter

TY Series

Bandwidth from 5kHz to 20MHz
Up to 100dB
Voltage: 100 V - 200 V
- 40°C to +55°C



EMI Filters

Solder-in or threaded package

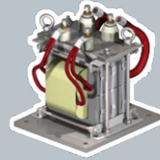
Capacitance: 10 pF - 33 000 pF
Up to: 10 A
- 55°C to +125°C



Inductor

Custom design

Rated Current : Up to 242 A
Inductance : Up to 150 μ H
Frequency : Up to 50 Hz
- 40°C to +180°C



Power transformer

Custom design



Potentiometers

C9209 Series

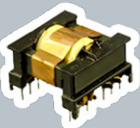
Compact design
Diameter range : 20 - 30mm
Length : 12,5mm
- 55°C to +125°C



High reliability magnetics

Stator 20

For Implantable device
Dimensions L Max : 30mm
Weight Max : 0,08kg



High Voltage Transformer

ETD package

with specific coil former and
multi-section coil former



Inductor

RM 10 package linears

Produced in mid to high volumes in
competitive manufacturing
locations



High voltage resistors

HVD Series and custom

Very Low Noise
Voltage: 4 kV - 40 kV
Resistance: 100 k Ω - 2 T Ω
- 55°C to +150°C



Flyback transformer

Custom design for implantable cardiac defibrillator.

Very low profile : < 4,4 mm

