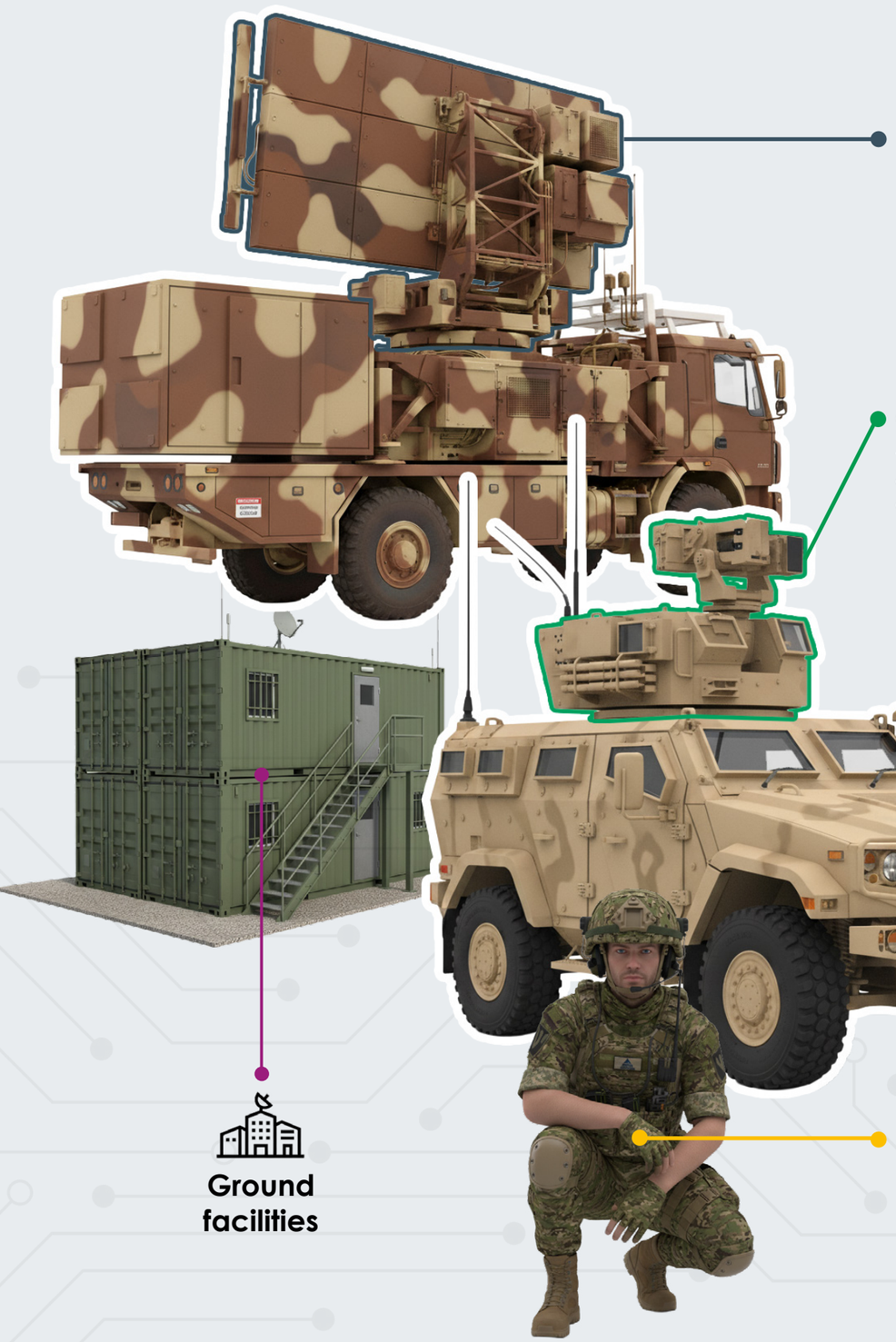
Inside

LAND EQUIPMENT

As experts in **ruggedized, compact and custom designs**, Exxelia provides highly efficient products tailored for **ground vehicles & facilities, radars and soldier equipment.**

Exxelia is recognized for its comprehensive range of **high-reliability passive components**, which includes **MIL capacitors & resistors, inductors, transformers** and **EMI-filters.** Exxelia also stands out as a significant supplier of **position sensors & slip rings** to protect critical buildings from external interference.



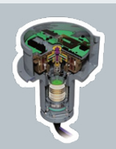
Ground radar

Remote control station
for military vehicles and tanks. Ideal for electro-optical systems

Military vehicle

Soldier equipment
in radiocommunication equipment

Ground facilities



Integrated solutions
Slip ring + encoder
FORJ +RF-RJ
High power data transmission

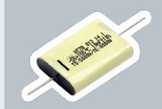
High Data Rate S.R
Slip rings Compatible HD-SDI / 3G-SDI and gigabit ethernet
High number of tracks
Compact systems
Hollow shaft option

Compact Integrated Solutions
Slip Ring + Encoder + FORJ
Higher integration
Turnkey solution
Fully customizable

Slip ring + FORJ
Higher integration
Turnkey solution
Fiber optic

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

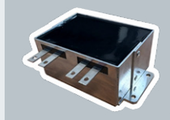
Microwave HiQ
MLCC RF capacitors CH & SH Series
Low ESR - High working voltage up to 1500V
Extended operating temperature (+175°C)



High voltage
Film & Mica Capa. HTA Series
Composite reconstituted mica
Capacitance: 0,1 nF - 2,2 nF
Voltage DC: 630 V - 20 000 V
- 55°C to +155°C

Position Sensors
Precision Potentiometers C9209
Length: 12.5mm
Weight: 13g
Vibrations 20g.acc

Surface Mount Resistors
MCH High Voltage Chip Resistors
Voltage DC: 150 V - 5000 V
Resistance: 10kΩ ~ 50GΩ
Power Rating: 0.04W ~ 2W
- 55°C to +150°C



Coupled Inductors
Interleaved boost converter 225kVA 40kHz
160-450V DC Bus >> 450-750V DC
Average current 150ADC
+ 60App at 40kHz

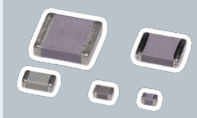
SESI inductors
6 sizes SMD packages
Increased thermal dissipation Inductance: 1 µH - 470 mH
Up to: 1 MHz
- 55°C to +125°C

High power Transformers
40KVA - Lamination assemblies
Connexion through isolators, bus bar
Frequency: 60 Hz
Vacuum Impregnations
Anti flash finition

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**



Non magnetic

Ceramic capacitors CEC/CNC Series
High-Rel capacitors
CEC series: Cap. max 470 nF
CNC series: Cap. max 12 µF
- 55°C to +125°C

High capacitance

Ceramic capacitors R Series
Miniaturization
Capacitance: 47 nF - 27 µH
Voltage: 50 V - 500 V
- 55°C to +125°C

Alu. Electro. Capa.

Cubisic SLP Capacitors
Capacitance: 100 µF - 68000 µF
Voltage: 10 V - 450 V
High Energy density, Integrability
Long life Time (5000h)

MIL & DLA (DSCC)

MIL 39006/22 & MIL 39006/25
Capacitance: 6,8 µF - 680 µF
Voltage DC: 25 V - 125 V
Tolerance: ±10%, ±20%
- 55°C to +125°C

Magnetic Winding

Double Section Bobin
Creation / generation of a voltage via an internal magnet.
Fuse for ammunition
(trigger coil)

RF inductor

Magnetics MPCI 2000
Excellent Q factor
Inductance: 0,01 µH - 1 mH
Frequency: 0,79 MHz - 500 MHz
- 55°C to +125°C

EMC filters

FC Series
C filtering cell - Up to 80dB
Voltage DC: 100 V - 1000 V
Current: 200A
Insertion Loss: 70dB

EMI filters

Type C, L, Pi and T
Diameter Ø: 3 to 10 mm
Gold / Silver plated
Soldered, screwed, SMD

TEMPEST filters

BC-88 series
Current: 1250A
Up to 80dB (300kHz), Low leakage
AC protection, up to 400Hz
Asymmetric design

EMC filters

2BL series
Current: 64A
Voltage DC: 28 V - 240 V
Insertion Loss: 70dB
- 40°C to +85°C

High Voltage Single Layer Cap.

3KVdc Thru 20KVdc+
Capacitance: 8.4pF – 0.077uF
Class 1 and Class 2 Dielectrics
Up to -55°C thru +125°C Rated

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