



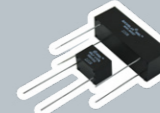
EXXELIA<sup>®</sup>

Inside


# COMMERCIAL AIRCRAFT

Exxelia brings its know-how to **Aircraft, Helicopters** and **OEM manufacturers** in numerous platforms for all types of critical functions including cockpit & avionics, engine & controls, actuation systems and power generation & distribution.


Exxelia has a long heritage in the supply of **passive components for aviation** equipping the latest and most advanced aircraft in the world. Exxelia's wide product portfolio of **MIL film** and **tantalum capacitors, MLCC, electrolytic rectangular capacitors, inductors, transformers & filters** and responds to the challenges of tomorrow's aviation in terms of increased power, weight and volume saving, high reliability, robustness, and 400Hz network.


**High energy density**  
**MML M-series**  
90% lighter than MLCC  
Capacitance: 1,1 $\mu$ F - 300 $\mu$ F  
Voltage: 300V - 1000V  
-55°C to +140°C



**Common & Diff**  
**Inductor CC Series**  
Inductance: 0,05  $\mu$ H - 2 232  $\mu$ H  
Up to: 14 A  
- 55°C to +125°C




**High energy density**  
**MML D-series**  
For power management  
Highly customizable  
Capacitance: 100 $\mu$ F - 2400 $\mu$ F  
Voltage: 300V - 1000V  
-55°C to +140°C




**SESI inductors**  
**6 sizes SMD packages**  
Increased thermal dissipation  
Inductance: 1  $\mu$ H - 470 mH  
Up to: 1 MHz  
- 55°C to +125°C




**Film capacitors**  
**BIK Series (PET Film)**  
Metallized polyester  
Capacitance: 1 nF - 4,7  $\mu$ F  
Voltage: 1 000 V - 6 300 V




**High frequency**  
**Film capacitor PM9x Series**  
Low inductance / Self-healing  
Capacitance: 0,022  $\mu$ F - 180  $\mu$ F  
Voltage: 50 V - 400 V  
- 55°C to +125°C




**High voltage**  
**Ceramic capacitor TCF Series**  
Conformal coated capacitors  
Capacitance: 5,6  $\mu$ F - 680  $\mu$ F  
Voltage: 6,3 V - 100 V  
- 55°C to +125°C




**Smart magnetics**  
**Dual active bridge transformer**  
Integrated with inductor  
10 kW  
Up to: 100 kHz  
Inductance: 80  $\mu$ H




**High current**  
**Tantalum capacitor CTC 21 Series**  
Very low ESR  
Capacitance: 5,6  $\mu$ F - 680  $\mu$ F  
Voltage: 6,3 V - 100 V  
- 55°C to +125°C




**RM platform**  
**Inductor/SMPS transformers**  
Through-hole mounting  
Power 35 W  
Up to: 180 kHz  
- 40°C to +85°C



**Flyback transformers**  
**CCM Magnetics**  
Pick and place friendly  
Frequency range: up to 1MHz  
Multiple outputs  
- 55°C to +125°C



**Planar**  
**Transformer**  
Low-profile construction  
Frequency: 50 kHz - Max: 1 MHz  
Up to 10 kWatts  
- 40°C to +125°C



**DC-link custom**  
**PP Film capacitor**  
Capacitance: 10 - 20  $\mu$ F  
Voltage: 600 V - 800 V  
- 55°C to +125°C

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](http://www.exxelia.com/en/contact)

### High capacitance



#### DSCC 93026 & 10004

Capacitance: 10  $\mu$ F - 10 000  $\mu$ F  
Voltage: 25 V - 125 V  
- 55°C to +125°C



### Toroid



#### Magnetics tore NM

Power: 0,05W  
Primary: 173 A  
Secondary: 0,23 A  
Frequency: 350 to 720 Hz



### High precision



#### Film capacitor KM Series

Low Tolerance up to 1%  
Capacitance: 1 000 pF - 22  $\mu$ F  
Voltage: 40 V - 630 V  
- 55°C to +125°C



### Stator



#### Magnetics

Slot insulation positioning.  
Manufacturing of High Stator  
diameter up to 500mm



### Prorelic



#### Alu. electrolytic capacitor

Axial 125°C  
Capacitance: 1  $\mu$ F - 25 000  $\mu$ F  
Voltage: 10 V - 450 V  
- 55°C to +125°C



### Multipulse



#### 400kz transformer anodized aluminum foil technologies

Interphase inductance and  
twelve pulse transformers  
Filtering chokes up to 400A



### Cubic Series



#### Alu. electrolytic capacitor

Low profile package/Low ESR  
Capacitance: 100  $\mu$ F - 68 000  $\mu$ F  
Voltage: 10 V - 450 V  
- 55°C to +125°C



### Microwave HiQ

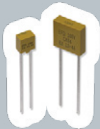


#### RF MLCC CH & SH Series

Low ESR  
Capacitance: 0,1 pF - 1000 pF  
Voltage: Up to 1500 V  
- 55°C to +175°C



### High stability



#### Hi-Rel Ceramic capacitor TCN Series

Radial leaded  
Capacitance: 10 pF - 1,5  $\mu$ F  
Voltage: 25 V - 250 V  
- 55°C to +125°C



### EMI-RFI filters

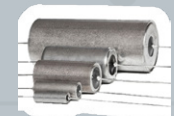


#### Multiple point feed through filters

D-SUB interface  
Insertion loss: 4 - 70 dB  
Voltage: 25 V - 200 V  
- 55°C to +125°C



### MIL film capacitors



#### M83421 & M39022

Hermetically Sealed  
Capacitance: 0,001  $\mu$ F - 22  $\mu$ F  
Voltage: 30 V - 600 V  
- 65°C to +125°C



### EMI-RFI filters



#### Type-C, T, Pi, L

Solder-in or threaded package  
Capacitance: 10 pF - 33 000 pF  
Up to: 10 A  
- 55°C to +125°C

