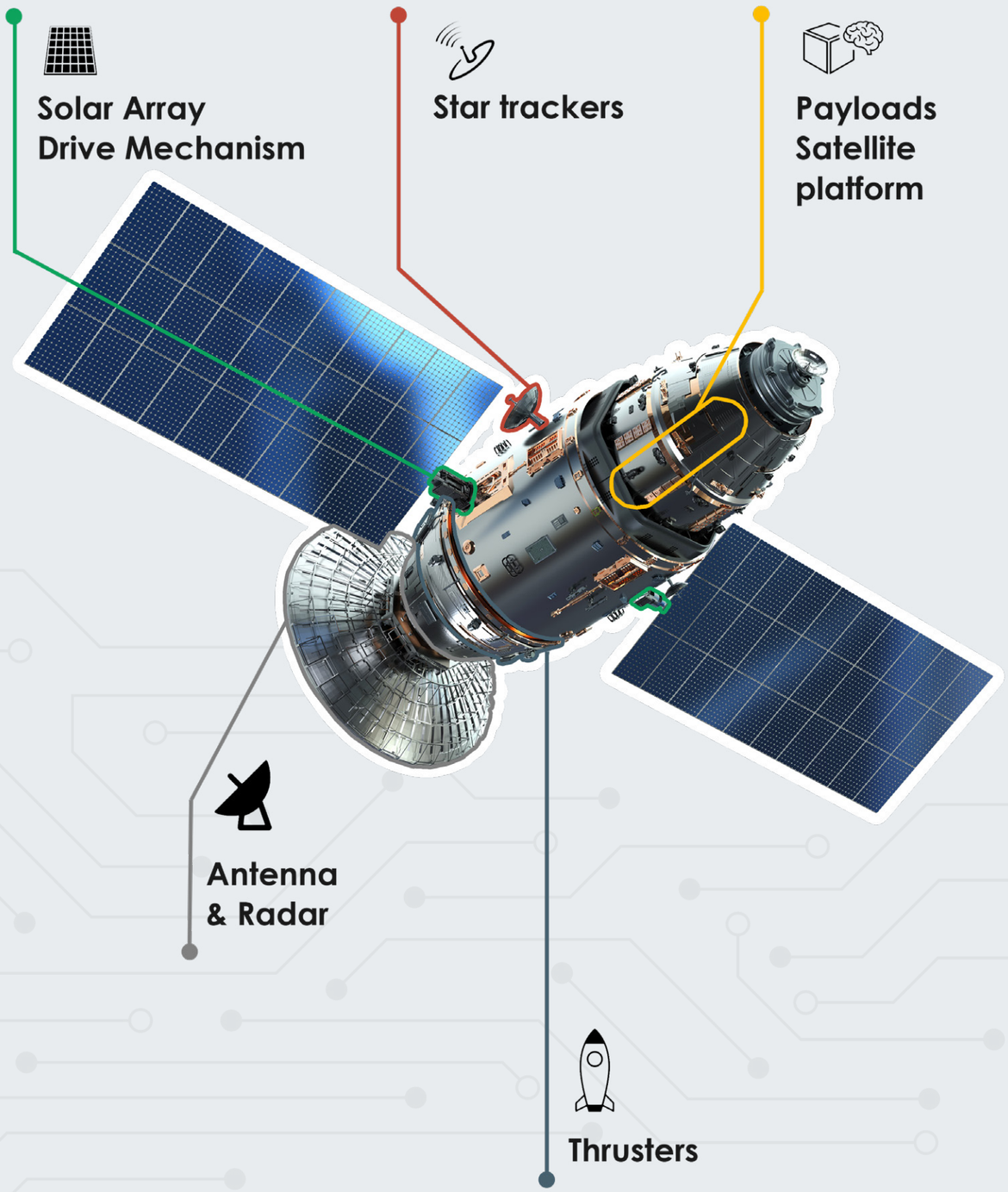
Inside

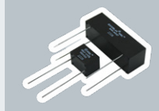
SATELLITES & CONSTELLATIONS

Strong of its **40+ years experience in space**, Exxelia offers the most complete space qualified passive components portfolio.
From Space exploration to New Space constellations, from launchers to military satellites, Exxelia offers the capacitor, inductor, transformer, resistor, EMI-filter, potentiometer and tailored to the reliability level you need.

With more than **50 ESA QPL product series**

(film capacitors, class 1 and class 2 ceramic capacitors, solid and wet tantalum capacitors, inductors and EMI filters), Exxelia supplies most functions of a satellite platform, payload or launcher.





High energy density

MML M-series
90% lighter than MLCC
Capacitance: 1,1µF - 300µF
Voltage: 300V - 1000V
-55°C to +140°C

Smart Magnetics

Power converters optimization
High frequency (GaN / SiC)
2x more compact
3x lighter

Rotary potentiometer

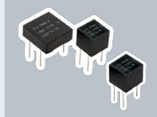
Position sensors
Extra low profile / miniature pan-cake / servo type
Diameter range : < 10mm - 80mm
- 55°C to +125°C

Linear potentiometer

Position sensors
Electrical travel 10 to 525 mm
- 55°C to +150°C

High voltage

HT Series, Mica
Molded capacitor
Capacitance: 100 pF - 2,2 µF
Up to 20 000 V
- 55°C to +125°C



High capacitance

Polyester PET - PM 90S & 94S
Capacitance: 0,22 µF - 1 500 µF
Voltage: 50 V - 630 V
- 55°C to +125°C

High voltage resistors

HVD Series and custom
Very Low Noise
Voltage: 4 kV - 40 kV
Resistance: 100 kΩ - 2 TΩ
- 55°C to +150°C

High voltage resistors

HVR
Ultra high stability
Voltage: 2 V - 40 V
Resistance: 100 kΩ - 4 TΩ
Tolerance to 0,1%

High capacitance

Polyester PET - PM 907S & 948S
Capacitance: 0,022 µF - 180 µF
Voltage: 50 V - 1 250 V
- 55°C to +125°C

High voltage

Capacitors TCF series X7R
Up to 10 kV
Hi-Rel capacitors
Conformal coated capacitors
- 55°C to +125°C

Chips capacitors

Ceramic CEC & CNC Series
Hi-rel capacitors
CEC series : Cap. max 470 nF
CNC series : Cap. max 12 µF
- 55°C to +125°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

High Voltage Block

Custom film capacitor
High Voltage Block
Composite reconstituted Mica
Capacitance: 300 pF - 300 nF
Voltage: 1 000 V - 12 000 V

Tantalum capacitors

Solid MnO_2 - CTC 21/CTC 21 E
High reliability, high ripple current
Very low ESR
Capacitance: 5,6 µF - 680 µF
Voltage: 6,3 V - 100 V

Powering performance

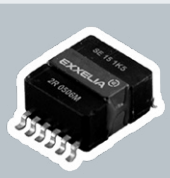
Exxelia is valued for its ability to develop standard and custom products complying with the most demanding qualifications.

Contact us **www.exxelia.com/en/contact**

High capacitance

Capacitors CNC 3x & 5x
Stacked technology
CNC 3x : Cap. max 68 µF
CNC 5x : Cap. max 180 µF
- 55°C to +125°C

Magnetics



SESI & CMC
Good thermal dissipation
+ 20% power density
Protected winding:
enhanced robustness

MIL STD-1553

Transformers
Height < 3.81 mm
Transfer moulded product
Withstands harsh environments

RF Chip Inductors

MPCI 2000
Low Tolerance up to 1%
Frequency: 0,79 MHz - 500 MHz
Voltage: 40 V - 400 V
- 55°C to +125°C

High capacitance

DSCC 93026 & 10004
Capacitance: 10 µF - 10 000 µF
Voltage: 10 V to 125 V
- 55°C to +125°C

Dielectric resonators

E7000
High Q factor : 25 000 at 10 GHz
Frequency: 5 900 MHz - 37 150 MHz
Custom shapes available

Ferrites

A, D, NZ, U, Y Series
High magnetization
High Curie temperature
High continuous power

Coaxial resonators

High Q factor
Size 2x2 mm available
Frequency: 300 MHz - 6 GHz

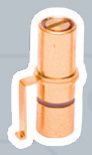
Invar Screws

Cavity filters tuning
Self locking system
Low CTE
Gold plating available

Flyback transformers

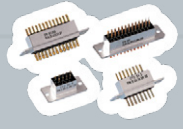
CCM magnetics
Pick and place friendly
Frequency range: up to 1MHz
Multiple outputs
- 55°C to +125°C

Trimmer capacitors



Air, sapphire, thin
Vertical or SMD mount
Non-magnetic version available
High-Q
Multiturn

EMI-RFI Filters



Multiple point feed through Filters
D-SUB interface
Capacitance: 200 pF - 4 400 000 mH
Voltage: 25 V - 200 V
- 55°C to +125°C

EMI Filters

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

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