



EXXELIA[®]

Inside

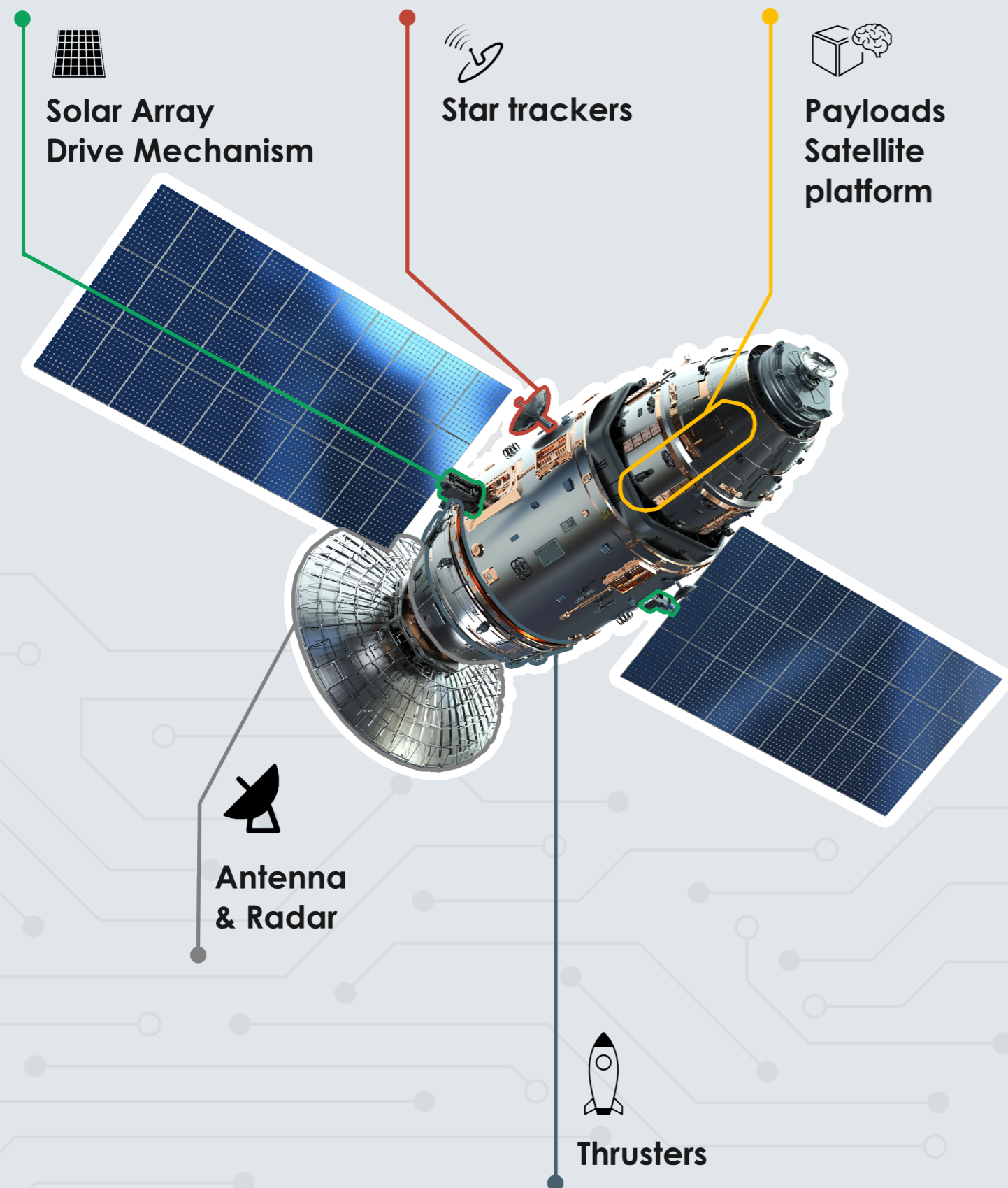

SATELLITES & CONSTELLATIONS

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.

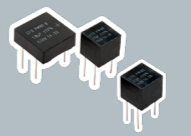
Rotary potentiometer
Position sensors
 Extra low profile / miniature pan-cake / servo type
 Diameter range : < 10mm - 80mm
 - 55°C to +125°C




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



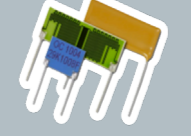
High voltage
HT Series, Mica
 Molded capacitor
 Capacitance: 100 pF - 2,2 μF
 Up to 20 000 V
 - 55°C to +125°C




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




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




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



Tantalum capacitors
Solid MnO₂ - SMT47
 Very high capacitance
 High reliability / Low ESR
 Capacitance: 47 μF - 1 500 μF
 Voltage : 6,3 V - 63 V



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

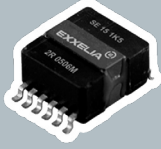


Tantalum capacitors
Solid MnO₂ - CTC 21/CTC 21 E
 High reliability, high ripple current
 Very low ESR
 Capacitance: 5,6 μF - 680 μF
 Voltage: 6,3 V - 100 V

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



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 μ F - 10 000 μ F
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

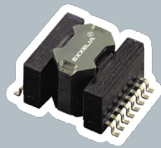
High Q factor

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



Slip rings

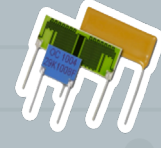
Qualified for space
environment **SADM (Solar
Array Drive Mechanism)
System** - Customizable



Flyback transformers

CCM magnetics

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



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



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

