



CAPACITORS FOR AUTOMOTIVE APPLICATIONS

- MKP CAPACITORS
- MKT CAPACITORS
- X2 CAPACITORS
- Y2 CAPACITORS
- POWER CAPACITORS

GENERAL DATA ABOUT ISKRA

THE STRENGTH OF THE COMPANY ISKRA LIES NOT ONLY IN ITS PRODUCTS AND TECHNOLOGY, BUT ALSO IN THE COMPANY'S HISTORY, WRITTEN BY INVENTORS, WORKERS AND SKILLED ENGINEERS.

TODAY ISKRA COMPANY IS **PRESENT IN MORE THAN 80 COUNTRIES** WITH A GLOBAL SALES NETWORK, IT IS THE REGIONAL **LEADING MANUFACTURER OF INDUSTRIAL SOLUTIONS AND CUTTING EDGE ELECTROTECHNICAL PRODUCTS.**

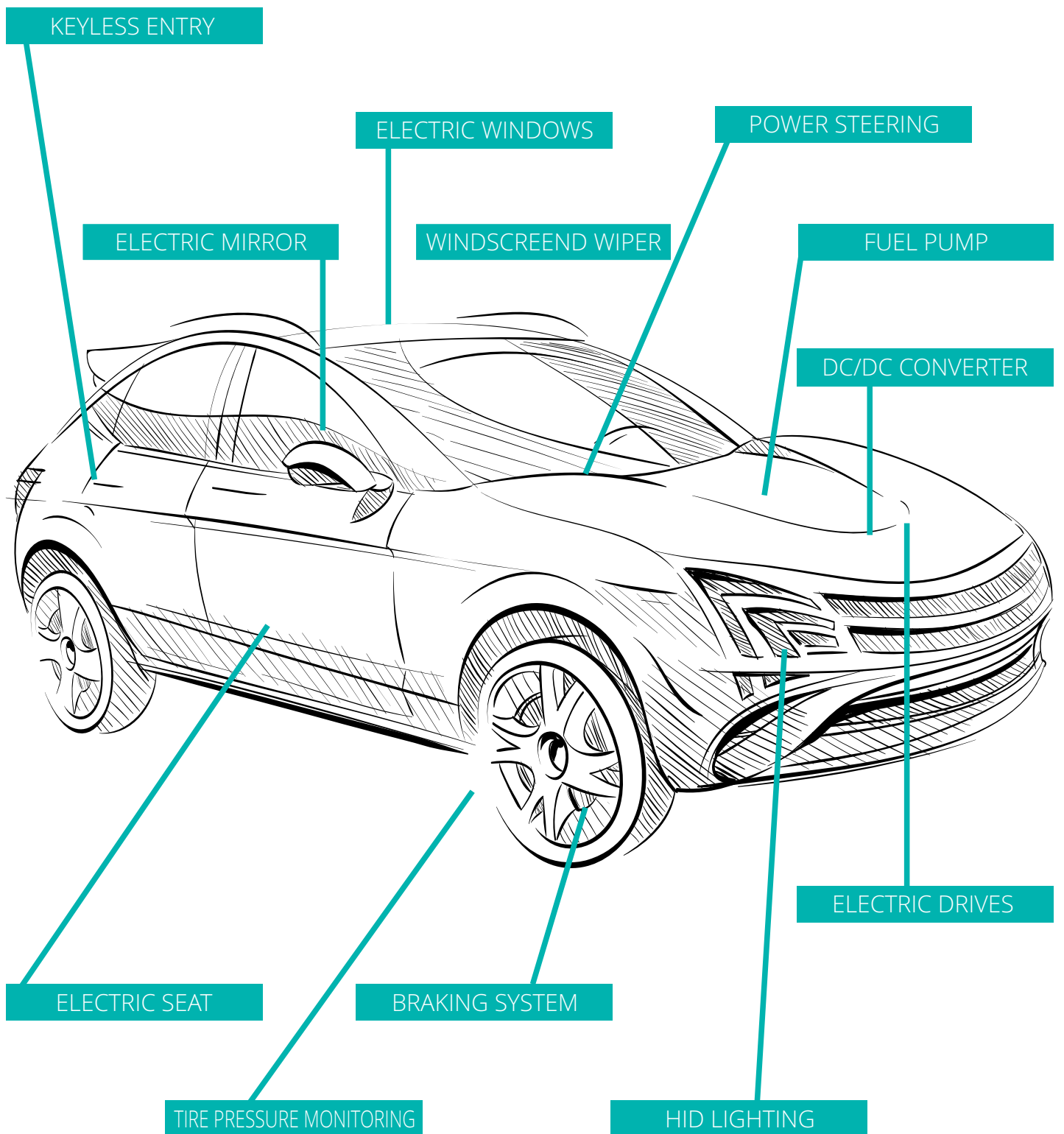
- FOUNDED IN 1946, **70 YEARS OF TRADITION**,
- **1133** EMPLOYEES,
- **7 PRODUCTION PLANTS:**
KRANJ, SEMIČ, OTOČE, ŠENTVID PRI STIČNI, GLINEK, LJUBLJANA, LAKTAŠI (BIH),
- **81 R&D** EMPLOYEES,
- **4 R&D** DEPARTMENTS
- **1 LABORATORY FOR CALIBRATION** IN OTOČE (ACCORDING TO IEC 17025:2005 STANDARD),
- **CERTIFICATES:** CE, VDE, UL, NF, SEMKO, CRS, GOST, LLOYDS, CQC, CSA, ATEX QAN, IECEX,
- **STANDARDS:** ISO 9001:2015, ISO 14001:2015, IEC 60384-1, IEC 60384-2, IEC 60384-13, IEC 60384-14, IEC 60384-16, IEC 60384-17, IEC 61071, AEC-Q200 (ON REQUEST)

ABOUT CAPACITORS

- **MODIFICATION CAPACITORS** FOR CUSTOMER REQUEST
- **DESIGN ALL SEMI-PRODUCTS** FOR CAPACITOR
- **AUTOMATIZATION OF IMPORTANT PROCESSES** (METALLIZATION, WINDING, SPRAYING, IMPREGNATION, ASSEMBLING, SEALING, MEASUREMENTS)
- **HIGH SAFETY PRODUCTS** - DESIGN ACCORDING TO INTERNATIONAL SAFETY STANDARDS
- **APPROVALS FOR OUR PRODUCTS** (UL, EN, CSA) AND USE OF UL APPROVED MATERIALS
- PROCESS STABILITY
- QUALITY CERTIFIED ACCORDING TO **ISO 9001 AND ISO 14001**
- DEVELOPMENT **NEW TECHNOLOGY** AND **MEASURING PROTOCOL**
- BUILT IN THE **ECOLOGICAL SUITABLE ROW MATERIALS**
- USE OF **MODERN QUALITY TOOLS**
- **FLEXIBILITY AND QUICK RESPONSIVENESS** - OWN CONSTRUCTION AND PRODUCTION OF TOOLS AND MACHINERY



CAPACITORS FOR AUTOMOTIVE APPLICATIONS

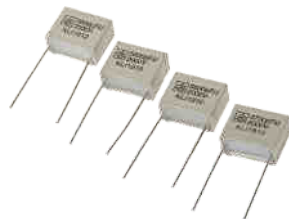


USE IN ELECTRONICS

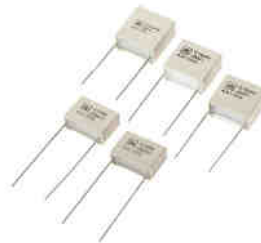
APPLICATION	POWERTRAIN		SAFETY APPLICATION			COMFORT APPLICATION					
	DC/DC CONVERTER, INVERTER ELECTRIC DRIVES	FUEL PUMP	BRAKING SYSTEM (ABS/ESC)	TIRE PRESSURE MONITORING	HID LAMPS	ELECTRIC MIRROR	KEYLESS ENTRY	ELECTRIC SEAT	ELECTRIC WINDOWS	WINDSCREEN WIPER	POWER STEERING
MKP CAPACITORS	●				●	●	●	●	●	●	●
MKT CAPACITORS		●	●	●		●		●	●	●	●
X2, Y2 CAPACITORS	●							●			
POWER CAPACITORS	●										

MKP CAPACITORS

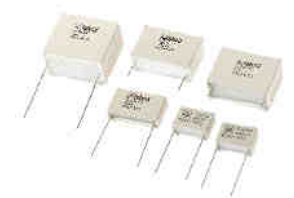
KLI1910



KNI1910



KNU1910



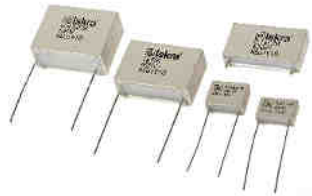
- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: METAL FOIL AND METALLIZED
- CAPACITOR RANGE: 1000 pF - 0.22 μ F
- RATED DC VOLTAGE: 100 - 2000 V
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- PULSE LOADING: 2200 - 20500 V/ μ s
- CLIMATIC CATEGORY: 55/100/56
- PITCH: 7.5 - 27.5 mm
- STANDARDS/APPROVALS: IEC 60384-13, IEC 60384-16
AEC-Q200 (ON REQUEST)

- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: DOUBLE METALLIZED AND METALLIZED
- CAPACITOR RANGE: 680 pF - 0.22 μ F
- RATED DC VOLTAGE: 250 - 2000 V
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- PULSE LOADING: 300 - 7000 V/ μ s
- CLIMATIC CATEGORY: 55/100/56
- PITCH: 7.5 - 27.5 mm
- STANDARDS/APPROVALS: IEC 60384-16, IEC 60384-17
AEC-Q200 (ON REQUEST)

- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: METALLIZED
- CAPACITOR RANGE: 1000 pF - 6.8 μ F
- RATED DC VOLTAGE: 250 - 1600 V
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- PULSE LOADING: 45 - 4500 V/ μ s
- CLIMATIC CATEGORY: 55/100/56
- PITCH: 10 - 27.5 mm
- STANDARDS/APPROVALS: IEC 60384-16
AEC-Q200 (ON REQUEST)

MKT CAPACITORS

KEU1910



KEA1xxx

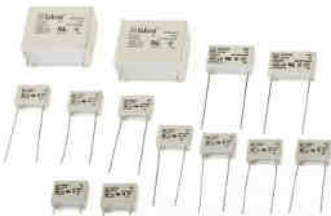






- DIELECTRIC: POLYESTER FILM
- ELECTRODES: METALLIZED
- CAPACITOR RANGE: 1000 pF - 22 μ F
- RATED DC VOLTAGE: 63 - 2000 V
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$, $\pm 20\%$
- PULSE LOADING: 2.5 - 90 V/ μ s
- CLIMATIC CATEGORY: 55/100/56
- PITCH: 10 - 27.5 mm
- STANDARDS/APPROVALS: IEC 60384-2
AEC-Q200 (ON REQUEST)

- DIELECTRIC: POLYESTER FILM
- ELECTRODES: METALLIZED
- CAPACITOR RANGE: 0.47 μ F - 2.2 μ F
- RATED DC VOLTAGE: 100 V
- CAPACITANCE TOLERANCE: $\pm 20\%$
- PULSE LOADING: 5 V/ μ s
- CLIMATIC CATEGORY: -40 °C to 100 °C

Y2 CAPACITORS

KNB252x




- DIELECTRIC: POLYPROPYLENE FILM
- RATED AC VOLTAGE: 250 V, 300 V
- CAPACITANCE RANGE: 1000 - 150000 pF
- CAPACITANCE TOLERANCE: $\pm 10\%$, $\pm 20\%$
- CLIMATIC CATEGORY: 40/100/56
- STANDARDS/APPROVALS:    
IEC/UL 60384-14
AEC-Q200 (ON REQUEST)

X2 CAPACITORS

KNB156x



- DIELECTRIC: POLYPROPYLENE FILM
- RATED AC VOLTAGE: 275 V, 300 V
- CAPACITANCE RANGE: 0.01 - 6.8 μ F
- CAPACITANCE TOLERANCE: $\pm 10\%$, $\pm 20\%$
- CLIMATIC CATEGORY: 40/110/56; 40/125/56
- STANDARDS/APPROVALS: 
IEC/UL 60384-14
AEC-Q200 (ON REQUEST)


KNB153x



- DIELECTRIC: POLYPROPYLENE FILM
- RATED AC VOLTAGE: 275 V, 300 V
- CAPACITANCE RANGE: 0.01 - 10 μ F
- CAPACITANCE TOLERANCE: $\pm 10\%$, $\pm 20\%$
- CLIMATIC CATEGORY: 40/100/56
- STANDARDS/APPROVALS: 
IEC/UL 60384-14
AEC-Q200 (ON REQUEST)


KNR153x RC-units



- DIELECTRIC: POLYPROPYLENE FILM
- RATED AC VOLTAGE: 275 V
- CAPACITANCE RANGE: 0.01 - 0.47 μ F, R = 2.2 - 470 Ω
- CAPACITANCE TOLERANCE: $\pm 10\%$, $\pm 20\%$
- CLIMATIC CATEGORY: 40/100/56
- STANDARDS/APPROVALS: 
IEC/UL 60384-14
AEC-Q200 (ON REQUEST)

KNB158x



- DIELECTRIC: POLYPROPYLENE FILM
- RATED AC VOLTAGE: 310 V
- CAPACITANCE RANGE: 0.01 - 15 μ F
- CAPACITANCE TOLERANCE: $\pm 10\%$, $\pm 20\%$
- CLIMATIC CATEGORY: 40/110/56
- STANDARDS/APPROVALS: 
IEC/UL 60384-14
AEC-Q200 (ON REQUEST)

POWER CAPACITORS

DC LINK CAPACITORS

KNG191x



- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: METALLIZED
- RATED CAPACITANCE: 0.1 - 480 μ F
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$
- RATED DC VOLTAGE: 450 - 1300 V
- CLIMATIC CATEGORY: 40/085/56
- LIFE EXPECTANCY: >100 000 HOURS AT U_{NDC}
- TERMINAL: PARALLEL TINNED COPPER WIRE (2, 4 or 12 pins)
- STANDARDS/APPROVALS: IEC 61071
AEC-Q200 (ON REQUEST)

**KNG204x
KNG304x**



- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: METALLIZED
- RATED CAPACITANCE: 75 - 1740 μ F
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$
- RATED DC VOLTAGE: 600 - 2200 V
- CLIMATIC CATEGORY: 40/085/56
- LIFE EXPECTANCY: >100 000 HOURS AT U_{NDC}
- TERMINAL: FEMALE: M6x10
MALE: M8x23
- STANDARDS/APPROVALS: IEC 61071, UL 810



HEV/EV



- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: METALLIZED
- RATED CAPACITANCE: 300 - 1100 μ F
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$
- RATED DC VOLTAGE: 450 - 800 V
- CLIMATIC CATEGORY: -40 °C to 85 °C
- LIFE EXPECTANCY: >100 000 HOURS AT U_{NDC}
- TERMINAL: TINNED COPPER
- STANDARDS/APPROVALS: IEC 61071

SNUBBER CAPACITORS

KNO19Ax



- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: DOUBLE METALLIZED AND METALLIZED
- RATED CAPACITANCE: 0.047 - 8 μ F
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$
- RATED DC VOLTAGE: 630 - 3000 V
- CLIMATIC CATEGORY: 40/085/56
- LIFE EXPECTANCY: >100 000 HOURS AT U_{NDC}
- TERMINAL: FIXING LUGS FOR M6 OR M8 SCREWS
- STANDARDS/APPROVALS: IEC 61071
AEC-Q200 (ON REQUEST)

KNO19Bx



- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: DOUBLE METALLIZED AND METALLIZED
- RATED CAPACITANCE: 0.047 - 8 μ F
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$
- RATED DC VOLTAGE: 630 - 3000 V
- CLIMATIC CATEGORY: 40/085/56
- LIFE EXPECTANCY: >100 000 HOURS AT U_{NDC}
- TERMINAL: FIXING LUGS FOR M6 OR M8 SCREWS
- STANDARDS/APPROVALS: IEC 61071
AEC-Q200 (ON REQUEST)

KNO191x



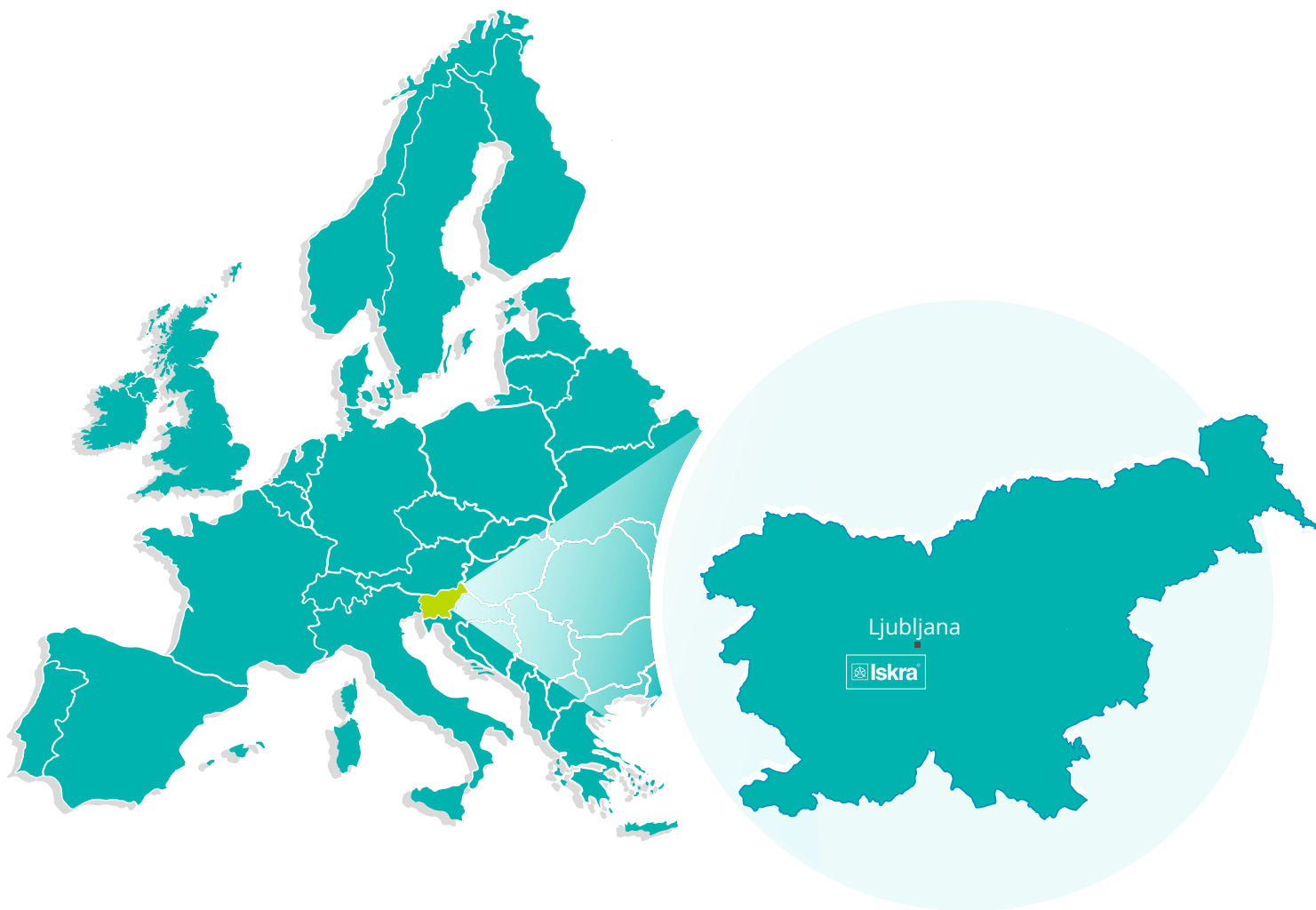
- DIELECTRIC: POLYPROPYLENE FILM
- ELECTRODES: DOUBLE METALLIZED AND METALLIZED
- RATED CAPACITANCE: 0.047 - 8 μ F
- CAPACITANCE TOLERANCE: $\pm 5\%$, $\pm 10\%$
- RATED DC VOLTAGE: 630 - 3000 V
- CLIMATIC CATEGORY: 40/085/56
- LIFE EXPECTANCY: >100 000 HOURS AT U_{NDC}
- TERMINAL: PARALLEL TINNED COPPER WIRE (2 or 4 pins)
- STANDARDS/APPROVALS: IEC 61071
AEC-Q200 (ON REQUEST)

MAJOR CUSTOMERS



CERTIFICATES





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