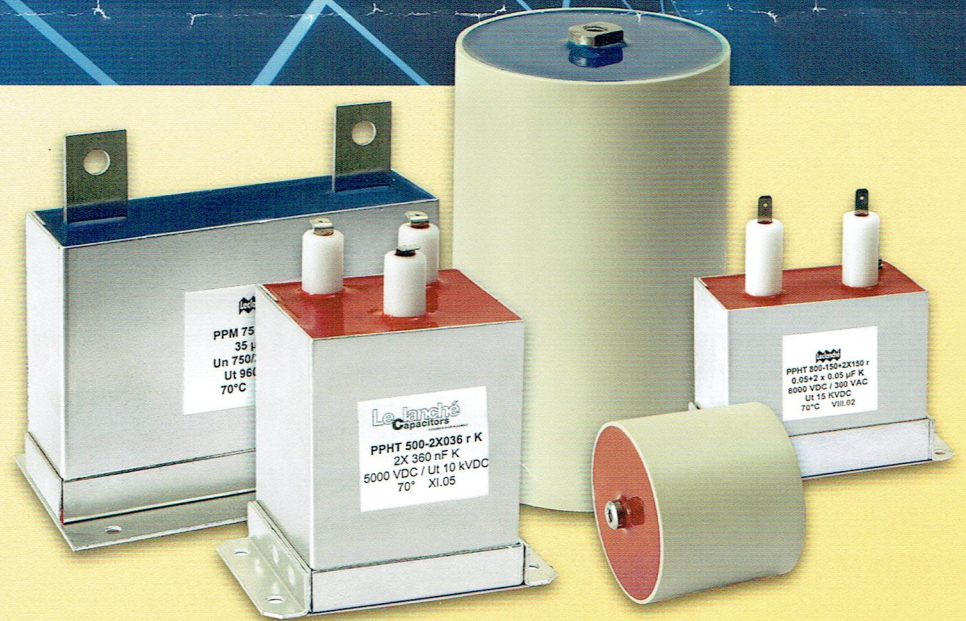


# Capacitors

## for Critical Applications and Extreme Environments



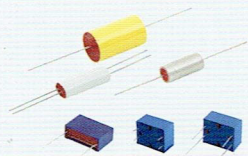
**Leclanché**  
**Capacitors**

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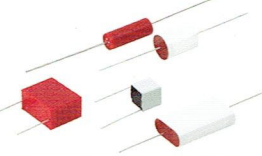


# Custom capacitors available

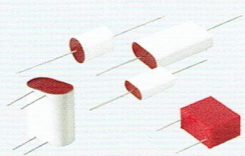
## Precision



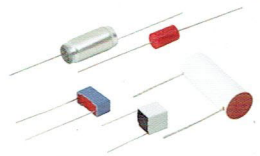
**CKM, CKS, MKP, MKS**



**KP, PPI/PPr, PPM, KPh**



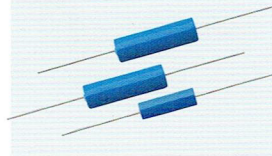
**KT, MKT, MKT-4**



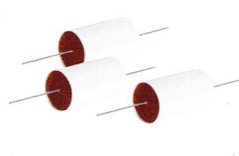
**PrM, Pa, Pag, Pni, Pnr, KSh**

Design	Metallized film, radial, axial	Film/Foil and metallized film radial, axial	Film/Foil and metallized film radial, axial	Film/Foil, radial, axial
Dielectric	Polycarbonate, PPS	Polypropylene	Polyester	Polystyrene
Capacitance Range	1 nF to 33 $\mu$ F	100 pF to 33 $\mu$ F	470 pF up to 120 $\mu$ F	7.5 pF to 100 nF
Voltage Range DC	40 to 630 V	63 to 1000 V	63 to 1000 V	30 to 630 V
Voltage Range AC	25 to 275 V	40 to 500 V	40 to 300 V	25 to 200 V
Temperature Range	-55 to +125° C	-55 to +105° C	-55 to +105° C	-55 to +105° C
Special remarks	Excellent capacitance stability	Good AC voltage ratings, Compact, low tolerances	Very compact	Low dielectric absorption, Very low tolerances
Applications	Railway, signalling, high temp, measuring equipment	Electrical/electronics	Electrical/electronics	Instrumentation, high-end Measuring equipment

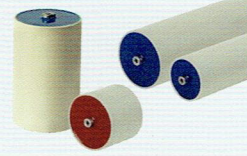
## High Voltage Frequency



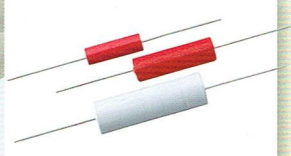
**PPHt**



**PPMHt**



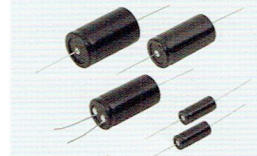
**KPHT, MIXHT**



**PPHF/KHT**

Design	Film/Foil	Metallized film	Film/Foil	Film/Foil
Dielectric	Polypropylene	Polypropylene	Polypro/Hybrid	Polypro/Hybrid
Capacitance Range	10 pF to 100 nF	3.3 nF to 3.3 $\mu$ F	1 nF to 125 nF	68 pF to 130 nF
Voltage Range DC	10 k to 30 kV	2 k to 10 kVDC	12 k to 30 kV	10 kV
Voltage Range AC	830 to 2500 V	500 to 1400 V	750 to 2500 V	500 to 700 V
Temperature Range	-55 to +125° C	-55 to +105° C	-55 to +105° C	-55 to +105° C
Special remarks	Suitable for immersion in oil	Compact	Rugged	Built to withstand lightning strikes
Applications	High voltage equipment	High voltage equipment	Pulse, discharge	Frequency filtering

## Electrolytic



**A, AH, AG**



**G, GP, GMX, GH, GG, GW, GF**



**SI, S14P/H, GS/H, SIG, S164P, GSG**



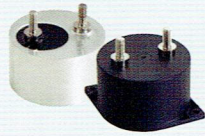
**LF, LFH**

Design	Axial	Screw-terminal	Snap-in, DIN	Solder lug
Capacitance Range	4.7 $\mu$ F to 82000 $\mu$ F	390 $\mu$ F to 3.3 F	56 $\mu$ F to 330000 $\mu$ F	56 $\mu$ F to 330000 $\mu$ F
Voltage Range DC	16 to 500 V	16 to 450 V	16 to 500 V	16 to 500 V
Temperature Range	-55 to +125° C	-55 to +125° C	-55 to +125° C	-40 to +105° C
Useful Lifetime	Please consult web page	2 k to 12 k hours	2 k to 3 k hours	3 k hours
Special remarks	Long-life, high temp, compact	High temp, long life, compact, self-extinguishing, high ripple	Long-life, high temp, compact	Long-life, compact
Applications	Professional, industrial	Professional, industrial	Professional, industrial	Flash

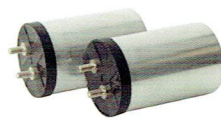


# Custom capacitors available

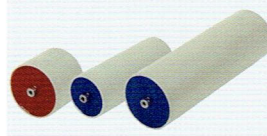
## Power



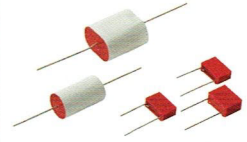
**CXP LP**



**CXP XL**



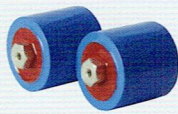
**KPHT**



**KPS d/g**

Design	Radial	Radial	Axial	Axial/radial
Dielectric	Polypropylene/polyester	Polypropylene/polyester	Polypropylene	Polypropylene
Capacitance Range	70 $\mu$ F up to 200 $\mu$ F	250 $\mu$ F up to 900 $\mu$ F	10 nF up to 125 nF	100 pF up to 2.2 $\mu$ F
Voltage Range DC	500 VDC to 1100 VDC	600 VDC to 1300 VDC	10k VDC to 20k VDC	630 VDC to 2k VDC
Voltage Range AC	125-200 VAC	-	750-1050 VAC	300-500 VAC
Temperature Range	-40 to +85° C	-40 to +85° C	-40 to +105° C	-40 to +105° C
Special remarks	Ultra low inductance allowing max $I_{RMS}$ , up to 150 A	Low ESR, low self-inductance (<15nH), robust construction	Designed for pulse applications. High du/dt. Long lifetime	Power capacitors for power electronics
Applications	Induction heating, railway	Power conversion & storage	Medical, laser	General power electronics

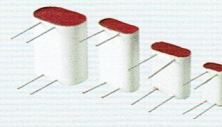
## Power



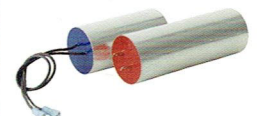
**KPS dv**



**MIXHT**



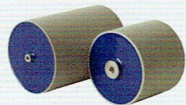
**MKT-4**



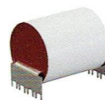
**PAM**

Design	Axial	Axial/radial/box	Radial 4 pins	Axial/radial/box
Dielectric	Polypropylene	Polypropylene	Polyester	Polypropylene
Capacitance Range	0.47 $\mu$ F up to 6 $\mu$ F	1 nF up to 100 nF	1.5 $\mu$ F up to 47 $\mu$ F	0.10 $\mu$ F up to 300 $\mu$ F
Voltage Range DC	800 VDC to 1300 VDC	up to 30kVDC	50 VDC up to 630 VDC	400 VDC to 2000 VDC
Voltage Range AC	400-500 VAC	up to 2500 VAC	24 VAC up to 180 VAC	250-2000 VAC
Temperature Range	-40 to +85° C	-40 to +85° C	-40 to +105° C	-40 to +85° C
Special remarks	Low ESR	High-voltage pulse applications	Very low profile, vibration resistant	Designated for AC applications
Applications	Pulse, power	Medical, laser	Aviation, signaling, compact PCB designs	Harmonic filtering, commutation, motors

## Power



**PPM 300**



**PPMCI / MKTCl**



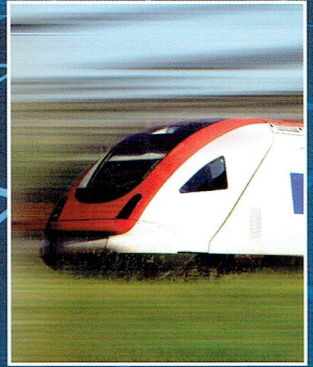
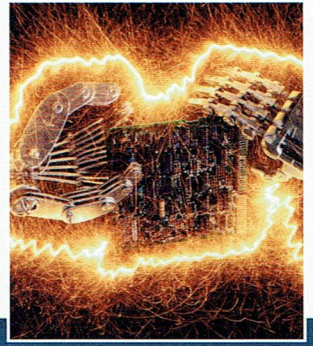
**PPMF**



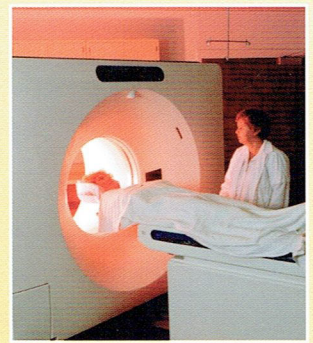
**PPMJc-4**

Design	Axial	Radial	Radial/axial/box	Radial 4 pins
Dielectric	Polypropylene	Polypropylene/polyester	Polypropylene	Polypropylene
Capacitance Range	0.25 $\mu$ F up to 10 $\mu$ F	0.16 $\mu$ F up to 300 $\mu$ F	0.10 $\mu$ F up to 8000 $\mu$ F	2 $\mu$ F up to 160 $\mu$ F
Voltage Range DC	3000 VDC	80 VDC to 2800 VDC	650 VDC up to 4400 VDC	600 VDC up to 1250 VDC
Voltage Range AC	up to 1400 VAC	120 VAC up to 1000 VAC	up to 1200 VAC	105 VAC up to 210 VAC
Temperature Range	-40 to +85° C	-40 to +105° C	-40 to +85° C	-40 to +85° C
Special remarks	Compact design, long-life-time	High current, excellent mechanical stability	High Capacitance, compact design	Industry standard
Applications	Railway traction GTO, protection	Medical, high-vibration environments	Energy storage, Discharge	PCB mount, medium power applications





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