

Electrolytic capacitors with screw terminals for professional power electronics, from Kendeil.

Electrolytic capacitors are manufactured to applicable standards for two temperature areas +85°C and +105°C. They are available in many versions customized for the relevant applications, from 16–600 VDC and from 100–1 500 000 µF.

Some types are held in stock while others are order items. Contact us for further information or a quotation.



Electrolytic capacitors with screw terminals

Applications

Professional power electronics such as switched power supplies, inverters, power converters, frequency converters, filters, motor drives, UPS systems, welding machines, power storage installations, audio applications for best sound reproduction, etc.

Properties

Kendeil's capacitors are of the very highest quality standards and each capacitor's parameters are tested before it comes off the production line, meaning that 100% of products leaving the factory have been tested for supply voltage/ripple current and ESR values at elevated temperatures in ovens.

Kendeil's electrolytic capacitors can handle high ripple currents and have a low ESR value which warrant a long service life. Different variants are designed for optimal performance in the relevant application area.

See technical data below. More detailed data for the relevant capacitors can be provided on request.

Composition

Electrolytic capacitors are made of two aluminium foils (anode/cathode foil treated to obtain their polarization), with intermediate paper sheet impregnated with electrolyte to prevent short circuits.

Both aluminium foils are etched to obtain the largest possible effective area and thus provide the highest possible capacitance. Aluminium connectors are connected between the foils and the capacitor connection terminals.

The casing is sealed to the cover and a safety valve in silicone rubber is mounted to the lid as a protection against overpressure. The cover is made of self extinguishing plastic material V0 in accordance with UL94.

Version/Capacitance/Dimensions

For specific capacitors see the item list below. For other capacitances and/or versions other than those listed, please contact BEVI for further information or a quotation.

In cases where new or customized capacitors are required, design data should be submitted to enable capacitor optimization for the application in question.

We also offer insulated nuts and washers in two different versions (for M8 and M12) which are intended for insulated mounting of capacitors.

Washers with collars are available as order items. We also offer mounting rings for capacitors with flat bottom for Ø35–76 mm. Mounting rings are order items with MOQ*. For dimensions see item list.

Packaging

The electrolytic capacitors are delivered in corrugated cardboard boxes. The quantity of capacitors per box depends on the dimensions of the particular capacitor.

The capacitors are order items with a MOQ* which depends on the capacitor type, size of packaging, etc. Contact us for further information and a quotation.

* MOQ – Minimum Order Quantity

Item list

Item no.	Voltage (V)	Capacitance (µF)	Max temp. (°C)	Mounting bolt	Dimensions (Ø × L, mm)
125876	25	68000	85°C	Flat bottom	51 × 79
125865	40	4700	85°C	M8	35 × 60
125698	40	8200	85°C	M8	35 × 60
125669	40	10000	85°C	M8	35 × 60
125847	40	15000	85°C	M8	35 × 79
125872	40	15000	85°C	Flat bottom	35 × 60
125858	40	22000	85°C	M12	51 × 79
125864	40	33000	85°C	M12	51 × 79
125868	40	47000	85°C	M12	51 × 105
125870	40	68000	85°C	M12	63 × 105
125696	40	100000	85°C	Flat bottom	76 × 79
125848	40	150000	85°C	M12	76 × 105
125869	63	6800	85°C	M8	35 × 60
125871	63	10000	85°C	Flat bottom	51 × 60
125875	100	47000	85°C	Flat bottom	76 × 143
125853	160	2200	85°C	M12	51 × 79
125842	200	6800	85°C	Flat bottom	63 × 105
126312	250	220	85°C	M12	36 × 60
125850	250	2200	85°C	M12	51 × 105
125683	250	10000	85°C	M12	76 × 143
125857	350	2200	85°C	Flat bottom	72.5 × 114
125861	350	3300	85°C	M12	63 × 105
125694	350	4700	85°C	M12	76 × 143
125873	350	4700	85°C	Flat bottom	76 × 143
125844	350	4700	85°C	M12	76 × 143
125846	350	6800	85°C	M12	76 × 143
125684	350	10000	85°C	M12	76 × 214
125689	400	1500	85°C	Flat bottom	51 × 105
125856	400	2200	85°C	Flat bottom	63 × 105
125851	400	2200	85°C	M12	76 × 105
125849	400	4400	85°C	M12	76 × 143
125854	450	2200	85°C	Plan botten	76 × 105
125855	450	2200	85°C	M12	76 × 105
125859	450	3300	85°C	Flat bottom	76 × 143
125860	450	3300	85°C	Flat bottom	76 × 105
125862	450	3300	85°C	M12	76 × 105
125863	450	3300	85°C	M12	76 × 143
125866	450	4700	85°C	M12	76 × 143
125845	450	4700	85°C	M12	76 × 143
125852	500	2200	85°C	M12	76 × 143
125867	500	4700	85°C	M12	76 × 143
125700	40	22000	105°C	M12	51 × 79
125878	160	6800	105°C	M12	76 × 105
125877	350	3300	105°C	M12	76 × 105
125877	350	3300	105°C	M12	76 × 105

Accessories

Item no.	Description	Dimensions
125908	Insulated nut	M8
125907	Insulated nut	M12
125993	Insulated washer	For M8
126201	Insulated washer	For M12



Technical data

Electrolytic capacitors with screw terminal for DC applications.

Variant	Type	Design	Technical data	Max temp. (°C)/Service life at max temp. 40°C (h)	Special functions	Applications
Screw terminal 85°C	K01	Compact	220–1 500 000 µF 16–500 VDC	+85/15 000 (200 000)	High capacitance and excellent electrical data in small volume. Low ESR value and high ripple current.	Professional power electronics, Switched power supplies, Frequency converters, Filtration
	K04	Professional	1 000–10 000 µF 350–600 VDC	+85/20 000	Extra long service life. Low ESR value and high ripple current.	Professional power electronics, Power supply, Motor drives, Welding equipment, Power storage
	K11	Large energy storage	12 000–30 000 µF 350–450 VDC	+85/15 000	Very high capacitance in small volume.	Parallel connection for extra large power storage, Bulk
	K21	High ripple requirements	1 200–15 000 µF 350–450 VDC	+85/15 000 (200 000)	Very low ESR value and very high ripple current.	Switched power supplies, Power converters with high ripple, Motor drives
	K41	Extreme vibration requirements	220–1 500 000 µF 16–500 VDC	+85/15 000 (200 000)	Design adapted for long-term vibrations up to 20 G. Low ESR value and high ripple current in small volume.	Professional applications exposed to high mechanical stress, typical applications: Train applications (Traction)
	K61	C Professional audio	6 800–47 000 µF 63–100 VDC	+85/25 000 (250 000)	Extremely linear characteristic between 20 Hz to 22 kHz. No effects of audio compression. Exact and realistic audio dynamics.	Design optimized for audio applications.
Screw terminal 105°C	K02	Professional, high temperature	100–470 000 µF 16–500 VDC	+105/5 000 (250 000)	Very high capacitance in small volume. Low ESR value and high ripple current. Extra high operational safety. Extra hög driftsäkerhet.	Professional power electronics, Switched power supplies, Frequency converters, Filtration
	K22	High ripple requirements, high temperature	1 000–12 000 µF 350–450 VDC	+105/5 000 (250 000)	Very low ESR value and very high ripple current. Extra high operational safety.	Switched power supplies, Power converters with high ripple, Motor drives
	K42	Extreme vibration requirements	100–470 000 µF 350–450 VDC	+105/5 000 (250 000)	Design adapted for long-term vibrations up to 20 G. Low ESR value and high ripple current in small volume. Extra high operational safety.	Professional applications exposed to high mechanical stress, typical applications: train applications (traction)
	K03	High discharges	560–2 200 µF 400–500 VDC	+55/Not specified	Handles high discharges.	For extreme welding applications and strobe applications.