



ELECTROLYTIC CAPACITORS SCREW TERMINAL



Electrolytic capacitors with screw terminals for professional power electronics, from Kendeil. Headquartered in Gallarate, Kendeil manufactures the whole Carbex range of DC capacitors at its factory in Italy. Electrolytic capacitors are manufactured for the two temperature areas +85°C and +105°C.

Small numbers of some types are held in stock whereas others are order items. Contact us for further information or a quotation.

- *Manufactured to applicable standards*
- *Available in many versions customized for the relevant applications*
- *From 16-600 VDC*
- *From 100-1500000 μ F*

PRODUCT INFORMATION

Electrolytic capacitors with screw terminals for professional power electronics from Keindeil. Headquartered in Italy, Kendeil manufactures the whole Carbex range of DC capacitors. Electrolytic capacitors are manufactured for the two temperature areas +85°C and +105°C.

Typical 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.

Product information for which Carbex bears no responsibility is provided by the manufacturer.





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Version/Capacitance/Dimensions

• For specific item stocked capacitors see "Item list Electrolytic Capacitors" below. For other capacitances and/or versions other than those listed, please contact Carbex for further information or a quotation.

In those cases where new or customized capacitors are required, design data should be submitted to enable capacitor optimization for the specific 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 $\varnothing 35 - 76$ mm.

Mounting rings are order items with MOQ.

For dimensions see item list.

Packaging

• Some versions in smaller volumes are available directly from our stock, whereas others are order items with a MOQ which depends on the capacitor type, size of packaging, etc.

Contact us for further information or a quotation and to find out about a possible MOQ. Capacitors are delivered ex works in corrugated cardboard boxes. The quantity of capacitors per box depends on the dimensions of the particular capacitor.

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Electrolytic capacitors Screw terminal

Item number	Voltage V	Capacitance (µF)	Max.temp (°C)	Mounting bolt	Dimensions *** (Ø x L mm)
10014168300	25	68000	85	Flat Bottom	51 x 79
10014047200	40	4700	85	M8	35 x 60
10014182200	40	8200	85	M8	35 x 60
10014010300	40	10000	85	M8	35 x 60
10014015300	40	15000	85	M8	35 x 79
10014015300K	40	15000	85	M8	35 x 60
10014115300	40	15000	85	Flat Bottom	35 x 60
10014022300	40	22000	85	M12	51 x 79
10014033300	40	33000	85	M12	51 x 79
10014047300	40	47000	85	M12	51 x 105
10014068300	40	68000	85	M12	63 x 105
10014068301	40	68000	85	M12	51 x 105
10014110400	40	100000	85	Flat Bottom	76 x 75
10014015400	40	150000	85	M12	76 x 105
10014115400	40	150000	85	Flat Bottom	76 x 105
10014010304	50	10000	85	M8	35 x 60
10014068200K	63	6800	85	M8	35 x 60
10014110300	63	10000	85	Flat Bottom	51 x 60
10014022300K	63	22000	85	M12	51 x 79
10014010301	100	10000	85	M12	51 x 105
10014147300	100	47000	85	Flat Bottom	76 x 143
10014022203	160	2200	85	M12	51 x 79
10014033200	160	3300	85	M12	51 x 105
10014047201	160	4700	85	M12	51 x 105
10014133300	160	33000	85	Flat Bottom	76 x 170
10014122100	250	220	85	Flat Bottom	35 x 51
10014022200	250	2200	85	M12	51 x 105
10014147200	250	4700	85	Flat Bottom	63 x 105
10014068200	250	6800	85	M12	76 x 105
10014010302	250	10000	85	M12	76 x 143
10014022202	350	2200	85	M12	63 x 105
10014022207	350	2200	85	Flat Bottom	72,5 x 114
10014033204	350	3300	85	M12	63 x 105
10014047204	350	4700	85	M12	76 x 143
10014147202	350	4700	85	Flat Bottom	76 x 105
10014147203	350	4700	85	Flat Bottom	76 x 143
10014847200	350	4700	85	M12	76 x 143
10014156200	350	5600	85	Flat Bottom	76 x 143
10014068201	350	6800	85	M12	76 x 143

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Item number	Voltage V	Capacitance (µF)	Max.temp (°C)	Mounting bolt	Dimensions *** (Ø x L mm)
10014068203	350	6800		85 M12	76 x 214
10014068204	350	6800		85 M12	90 x 220
10014010303	350	10000		85 M12	76 x 143
10014010306	350	10000		85 M12	76 x 214
10014015302	350	15000		85 M12	90 x 220
10014010200	400	1000		85 M12	51 x 70
10014022200K	400	2200		85 M12	76 x 105
10014022206	400	2200		85 Flat Bottom	63 x 105
10014033203	400	3300		85 M12	76 x 105
100140201	400	4400		85 M12	76 x 143
10014047100	450	470		85 M12	51 x 79
10014022204	450	2200		85 Flat Bottom	76 x 105
10014022205	450	2200		85 M12	76 x 105
10014033201	450	3300		85 Flat Bottom	76 x 143
10014033202	450	3300		85 Flat Bottom	76 x 105
10014033205	450	3300		85 M12	76 x 105
10014033206	450	3300		85 M12	76 x 143
10014047202	450	4700		85 M12	76 x 143
10014156201	450	5600		85 Flat Bottom	76 x 143
10014068202	450	6800		85 M12	76 x 143
10014010305	450	10000		85 M12	76 x 220
10014022201	500	2200		85 M12	76 x 143
10014044200	500	4400		85 M12	90 x 150
10014047203	500	4700		85 M12	76 x 143
10014247300	25	47000		105 M12	51 x 79
10014222300	40	22000		105 M12	51 x 79
10014015301	63	15000		105 M12	51 x 105
10014222301	63	22000		105 M12	63 x 105
10014268200	160	6800		105 M12	76 x 105
10014215200	250	1500		105 M12	51 x 105
10014233200	350	3300		105 M12	76 x 105
10014247100	400	470		105 M12	51 x 79
10014015201	400	1500		105 Flat Bottom	51 x 105

Item number	Descriptions	Dimension	Order item
10014900003	Insulated nut	M8	
10014900001	Insulated nut	M12	
10014900004	Insulated washer	For M8	
10014900002	Insulated washer	For M12	
10014900014	Insulated washer	For M8 with collar	X
10014900013	Insulated washer	For M12 with collar	X
10014900015	Mounting ring	Ø 35 mm	X
10014900016	Mounting ring	Ø 51 mm	X
10014900017	Mounting ring	Ø 63 mm	X
10014900018	Mounting ring	Ø 76 mm	X

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ELECTROLYTIC CAPACITORS SCREW TERMINAL

Technical data

Electrolytic capacitors with screw terminal for DC applications

Variant	Type	Design	Technical data	Maxtemp. °C /Serv. life at maxtemp. h (40°C)	Special functions	Applications
Screw terminal 85°C	K01*	Kompakt	220 - 1500000µF 16 - 500 VDC	+85/15000 (200000)	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
Screw terminal 85°C	K04	Professional	1000 - 10000µF 350 - 600 VDC	+85/20000	Extra long service life Low ESR value and high ripple current	Professional power electronics, Power supply, Motor drives, Welding equipment, Power storage
Screw terminal 85°C	K11	Large energy storage	12000 - 30000µF 350 - 450 VDC	+85/15000	Very high capacitance in small volume.	Parallel connection for extra large power storage, Bulk
Screw terminal 85°C	K21	High ripple requirement	1200 - 15000µF 350 - 450 VDC	+85/15000 (200000)	Very low ESR value and very high ripple current.	Switched power supplies, power converters with high ripple, motor drives
Screw terminal 85°C	K41	Extreme vibration requirement	220 - 1500000µF 16 - 500 VDC	+85/15000 (200000)	Design adapted for long-term vibrations up to 20G. Low ESR value and high ripple current in small volume.	Professional applications exposed to high mechanical stress, typical application trains (traction) applications
Screw terminal 85°C	K61	C Professional Audio	6800 - 47000µF 63 - 100 VDC	+85/25000 (250000)	Extremely linear characteristic between 20 Hz till 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 - 470000µF 16 - 500 VDC	+105/5000 (250000)	Very high capacitance in small volume Low ESR value and high ripple current Extra high operational safety	Professional power electronics, Switched power supplies, Frequency converters, Filtration
Screw terminal 105°C	K22	High ripple requirement, High temperature	1000 - 12000µF 350 - 450 VDC	+105/5000 (250000)	Very low ESR value and very high ripple current Extra high operational safety	Switched power supplies, Power converters with high ripple, Motor drives
Screw terminal 105°C	K42	Extreme vibration requirement	100 - 470000µF 16 - 450 VDC	+105/5000 (250000)	Designed adapted for long-term vibrations up to 20G Low ESR value and high ripple current in small volume Extra high operational safety	Professional applications exposed to high mechanical stress, typical application trains (traction) applications
Screw terminal 105°C	K03	High discharges	560 - 2200µF 400 - 500 VDC	+55/Ej spec.	Handles high discharges	For extreme welding applications and strobe-applications

* Capacitors in bold text refer to most common standard types

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