



Kendeil™

FILM CAPACITORS



POWER FILM CAPACITORS ROADMAP

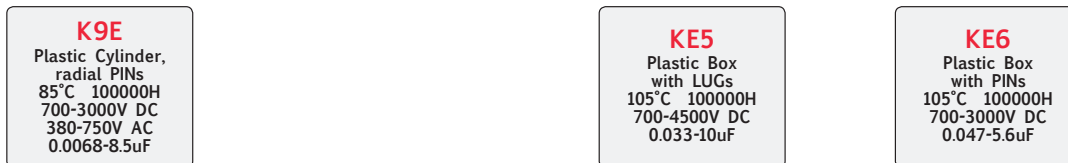
DC-LINK FILM CAPACITORS 85°C



105°C



SNUBBER FILM CAPACITORS 85°C



AC-FILTER FILM CAPACITORS 85°C



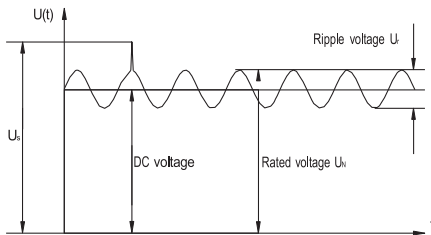
1. Technical Terms and Definitions

1.1 Rated Capacitance C_n

The rated capacitance measured at $20 \pm 5^\circ\text{C}$, 100Hz.

1.2 Rated Voltage U_n

The maximum or peak voltage of either polarity of non-reversing type wave form for which the capacitor has been designed and rated.



1.3 Non-Repetitive Peak (non-recurrent surge) Voltage U_s

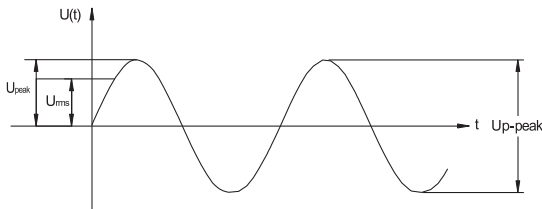
Voltages beyond the rated voltage induced by switching or faults of the system or any part of it. Maximum count 1000 times with the duration of not more than 50 ms each.

1.4 Ripple Voltage U_r

The peak-to-peak alternating component of the unidirectional voltage

1.5 Rated A.C Voltage U_{rms}

Root mean square of the max. permissible value of sinusoidal AC voltage in continuous operation



1.6 Rated A.C peak voltage U_{peak}

Rated A.C peak voltage, permissible A.C peak voltage in continuous operation.

1.7 Voltage Rise Time du/dt

This value shows the maximum voltage rise or fall time, it is expressed in volts per microsecond, and cannot overcome.

1.8 Maximum non-repetitive rate of voltage rise $(du/dt)_s$

Peak rate of voltage rise that may occur non-repetitively and briefly in the event of a fault.

1.9 Voltage Test between terminals U_{t-t}

Routine test of all capacitors conducted at room temperature, prior to delivery. A further test with 80% of the test voltage stated in the data sheet may be carried out once at the user's location.

1.10 Voltage Test between terminals and case U_{t-c}

Routine test of all capacitors between short-circuited terminals and case, conducted at room temperature. May be repeated at the user's location.

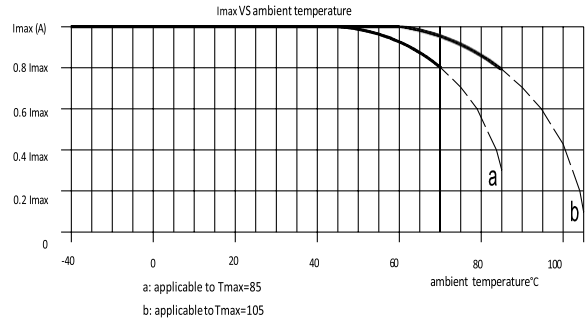
1.11 Peak Current I_{peak}

Maximum permitted repetitive current amplitude during continuous operation

$$I_{peak} = C_n \times (du/dt)$$

1.12 Maximum Current I_{max}

Maximum rms value of permissible current in continuous operation. The values given in the data sheets are related to either the specified maximum power dissipation or the current limits of the connection terminals



1.13 Non-repetitive Peak Current (surge) I_s

Maximum current that may occur non-repetitively and briefly in the event of a fault. Maximum count 1000 times with the duration of not more than 50 ms each.

$$I_s = C_n \times (du/dt)_s$$

1.14 Equivalent Series Resistance ESR

Equivalent resistance representing the sum of all Ohmic resistances occurring inside the capacitor. Essential for calculation of the current dependent losses.

1.15 Self-inductance L_s

Represents the sum of all inductive elements which are, for mechanical and construction reasons, contained in any capacitor.

1.16 Insulation Resistance $I.R.$

The insulation resistance between terminals is expressed by meaning of the discharge time constant R.C. Measured for 1 minute at 100 Vdc and at $25 \pm 5^\circ\text{C}$. The time constant (s) of a capacitor is the product of IR and capacitance:

$$s = M \times \mu F$$

1.17 Resonant Frequency F_r

The capacitance and self-inductance of any capacitor form a series resonant circuit. Above the resonant frequency, the inductive part of this LC-circuit prevails. The capacitor would then behave as an inductor.

$$F_r = \frac{1}{2\pi\sqrt{C_n \times L_s}}$$

1.18 Dielectric Dissipation Factor $\tan\delta$

Constant dissipation factor of the dielectric material for all capacitors in their rated frequency. The typical dielectric dissipation factor of BOPP is 2×10^{-4} .

1.19 Dissipation Factor $\tan\delta$

Dissipation factor calculated as:

$$\tan\delta = 2\pi f \times C_n \times ESR$$

1.20 Thermal Resistance R_{th}

The thermal resistance indicates by how many degrees the capacitor temperature at the hotspot rises in relation to the dissipation losses.

1.21 Maximum Power Dissipation P_{max}

Maximum permitted power dissipation for the capacitor's operation.

$$P_{max} = \frac{T_{hs} - T_e}{R_{th}}$$

1.22 Ambient Temperature T_e

Temperature of the surrounding air, measured 10 cm away and at 2/3 of the case height of the capacitor.

1.23 Hotspot Temperature T_{hs}

Temperature at hottest spot inside the capacitor

1.24 Lower Category Temperature T_{min}

Lowest permissible ambient temperature at which a capacitor may be used.

1.25 Upper Category Temperature T_{max}

Highest permissible capacitor temperature during operation, i.e. temperature at the hottest point of the case.

1.26 Rated Energy Contents W_n

Energy stored in the capacitor when charged at rated voltage.

$$W_n = \frac{1}{2} \times C_n \times U_n^2$$

1.27 Clearance in air L

The shortest distance between conducting parts of the terminals or between terminals and case.

1.28 Creepage distance K

The shortest distance along an insulated surface between conducting parts of the terminals or between terminals and case.

1.29 Altitude

The maximum allowable altitude is 2000 meters. As the barometric pressure decreases, the terminal arc-over susceptibility increases. Heat cannot be properly dissipated operating at high altitude and can result in high losses and eventual failure.

1.30 Storing Temperature

The range over which the capacitor can be stored without any applied voltage, with no degradation is -40 to +85 °C.

1.31 Life Expectancy L_e

Above all, the expected life of the capacitors depends on the internal temperature during operation, and the field strength in its dielectric.

Life expectancy versus voltage

$$L_e = L_n \times \left(\frac{U_n}{U_w} \right)^7$$

L_e = Life expectancy at operating voltage (h)

L_n = Life expectancy at nominal voltage (h)

U_n = Nominal voltage (v)

U_w = Operating voltage (v)

Life expectancy versus temperature

$$L_e = L_{T0} \times 2^{\frac{(T_0 - T_{hs})}{11}}$$

L_e = Life expectancy at θ_{hs} hot spot temperature (h)

L_{T0} = Life expectancy at 70°C hot spot temperature (h)

T_0 = 70°C hot spot temperature (70°C)

T_{hs} = θ_{hs} Hot spot temperature (°C)

2. Mounting and Operating Instructions

2.1 Overpressure Disconnecter

When mounting capacitors with overpressure disconnectors, make sure that the elastic elements of the fuse are not impeded.

This means:

- The connecting leads must be sufficiently elastic.
- There must be enough space left for expansion above the terminals of aluminum-cased capacitors (stated for the individual type).
- The folded crimps must not be held by retaining clamps.
- The elastic bottom of capacitors in round steel cases must be free to move.

2.2 Mounting position

Capacitors can be mounted in any position except for some series that can only be mounted upright. But the following exceptions to the rule are possible:

- Capacitors in aluminum cases with voltage ratings up to 3600 V and capacitors in rectangular steel cases may also be positioned horizontally.
- At higher voltages or for capacitors in round steel cases, horizontal positioning is also permissible. But consult the manufacturer first.

2.3 Mounting

The threaded bolt on the bottom of aluminum cases with a diameter of ≤ 60 mm and a height of ≤ 160 mm may be used for attachment if vibration stress does not exceed 5 g. For larger dimensions and vibration of > 5 g, the capacitors should be mounted by clamps, rings, etc.

Mounting with threaded bolt:

Threaded bolt	Threaded bolt length	Maximum torque
M8	10 mm	4.5 N.m
M10	12 mm	6 N.m
M12	16 mm	8 N.m

2.4 Terminals

For terminal bolt and nut tightening torques, refer to the individual datasheets. The terminal torque must not act upon the ceramic. The lead should be locked between two nuts.

Female	Max Torque	Male	Max Torque
M5	2.5 N.m	M8	8.5 N.m
M6	4.5 N.m	M10	12 N.m
M8	8.5 N.m	M12	15 N.m

2.4.1 Minimum terminal connection cross-sections in accordance with VDE/DIN 0100 part 523 and 430, group 2. For the electrical terminals on ceramic lead-throughs only flexible leads should be used so that these lead-throughs are guarded against mechanical stress.

The outer leads of the capacitor should be dimensioned so that no heat is conducted into the component. You are advised to scale these leads so that heat is conducted away from capacitor terminals.

2.5 Grounding

Either a threaded bolt or a strap serves for grounding to VDE 0100. Grounding is omitted for single-pole and fully insulated capacitors. The layer of varnish beneath the clamp should be removed when grounding with a metal clamp.

2.6 Safety precautions

Observe appropriate safety precautions in use (self-recharging phenomena and the high energy contained in capacitors).

2.7 Solder conditions for radial and axial units on PCB

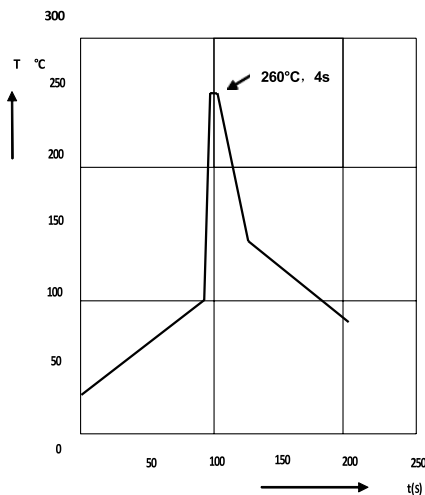
The soldering temperature must be set to keep the temperature inside the capacitors below the following general limits:

Solder bath temperature $260 \pm 5^\circ\text{C}$, Soldering time 4s for radial units with leads pitch $P > 10\text{mm}$.

When soldering the leads, make sure the capacitors are not damaged through excessive heat.

This means:

- Lead wires with a cross-section of $> 1.5 \text{ mm}^2$ should not be soldered but clamped (soldering would require too much heat).
- Do not solder at spots where heat concentrates, otherwise there is a risk that the solder joint of the tags melts.



Immersion depth	2.0 +0/-0.5mm from capacitor body or seating plane
Shield	Heat-absorbing board, (1.5±0.5) mm thick, between capacitor body and liquid solder
Evaluation criteria:	
Visual inspection	No visible damage
$\Delta C/C_0$	2% for KE6/ KE2/ KE4/ KE9
$\tan \delta$	5% for KE6/ KE2/ KE4/ KE9

3. End of use and disposal

The materials used in capacitors for power electronics from KENDEIL do not exceed the limits for chemical substances specified in the following national regulations:

- Chemicals prohibition regulation,
- CFC halogen prohibition regulation.

Our capacitors for power electronics contain no means of impregnation with PCB. Capacitors without PCB for power electronics are not explicitly mentioned in the waste qualification regulations. From this it could be deduced that they do not have to be disposed of as "waste requiring special supervision".

Because of our special commitment to and responsibility for the environment, we ask you to take every care when disposing of capacitors. We recommend that you drain the impregnation oil out of the capacitor and send it to an oil refuse depot. The emptied capacitor can then be disposed of as a grease and oil soiled item of apparatus. In any case it is advisable to consult a waste disposal facility and to find out about the applicable regulations in force.

4. Delivery and packing

In the packing of products, KENDEIL naturally supports the needs of protection of the environment.

In the words:

- Use of packing made of environmentally compatible materials.
- Reduction of packaging to the necessary minimum.
- We have implemented the following measures to ensure compliance with regulations governing the handling and disposal of commercial waste.
- Use of pallets.
- Securing of pallets by straps and edge guards of environment-friendly plastic (PE or PP). Stretch and shrink film (PE) are used.
- Shipping cartons are identified by the RESY symbol.
- Separating layers for pallets and cartons are primarily of paper or cardboard.
- Filler material consists of paper.
- Shipping cartons are sealed with recycled paper adhesive tape to ensure material of the same kind for disposal.
- We take our packaging back (especially product-specific packaging made of plastic). Nevertheless, we request our customers to deliver cardboard products, corrugated board, paper, etc. to recycling or disposal operators in order to avoid unnecessary transport of empty packaging.

5. Application

5.1 Capacitor for a DC-Link application

The rated voltage of the capacitor must be equal to or bigger than the applied DC voltage plus ripple voltage:

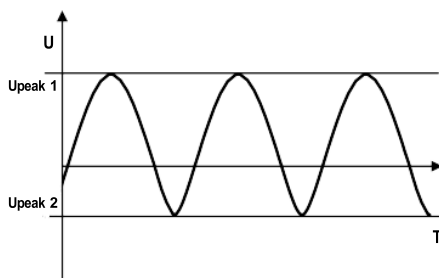
$$U_n \geq U_{dc} + \frac{U_r}{2}$$

According to the data sheets of values, you should find a capacitor with required capacitance C_n and voltage U_n is recommended. You must also verify that the maximum r.m.s. current for continuous operation can be accepted by the capacitor: I_{max} depends on the terminal or specified on the sheets.

These capacitors may be subjected to the following surge voltages without any significant reduction in lifetime expectancy.

Repetitive surge voltage	Maximum duration
1.1 x U_n	30% of the service period
1.15 x U_n	30 min/d
1.2 x U_n	5 min/d
1.3 x U_n	1 min/d
1.5 x U_n	100 ms no more than 1000 times

5.2 Capacitor for a AC application



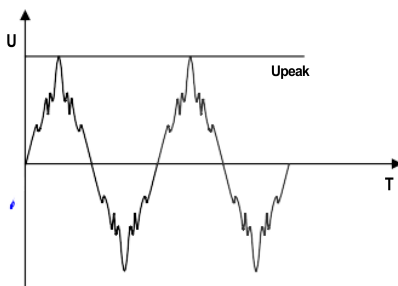
The rated voltage of the capacitor must be equal to or bigger than the higher one on the two U_{peak1} and U_{peak2} .

According to the data sheets of values, you should find a capacitor with required capacitance C_n and voltage U_n is recommended. You must also verify that the maximum r.m.s. current for continuous operation can be accepted by the capacitor: I_{max} depends on the terminal or specified on the sheets.

5.3 Capacitor for AC filter

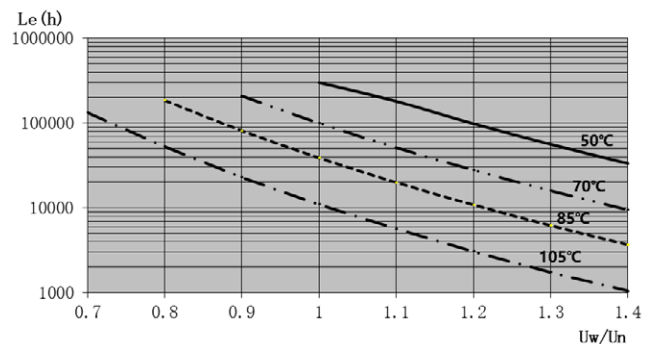
For AC filter capacitors, the AC voltage rating U_n AC is not determined by the rms value U_{rms} , but by the peak value of the resulting voltage (as measured by an oscilloscope or calculated from available harmonic data).

In any case, the rated voltage must be bigger than the applied peak voltage.



5.4 Operating life

The operating life of the capacitors depends on the internal temperature during operation, and the field strength in its dielectric. The capacitors have been designed for an average service life of 100,000h (permitted failure rate ≤ 150 ppm). These values are rated for the hotspot temperatures specified in the selection charts. The following diagram demonstrates the correlation between service life, temperature, and operating voltage.



5.5 Lifetime Statements vs. Failure Rate

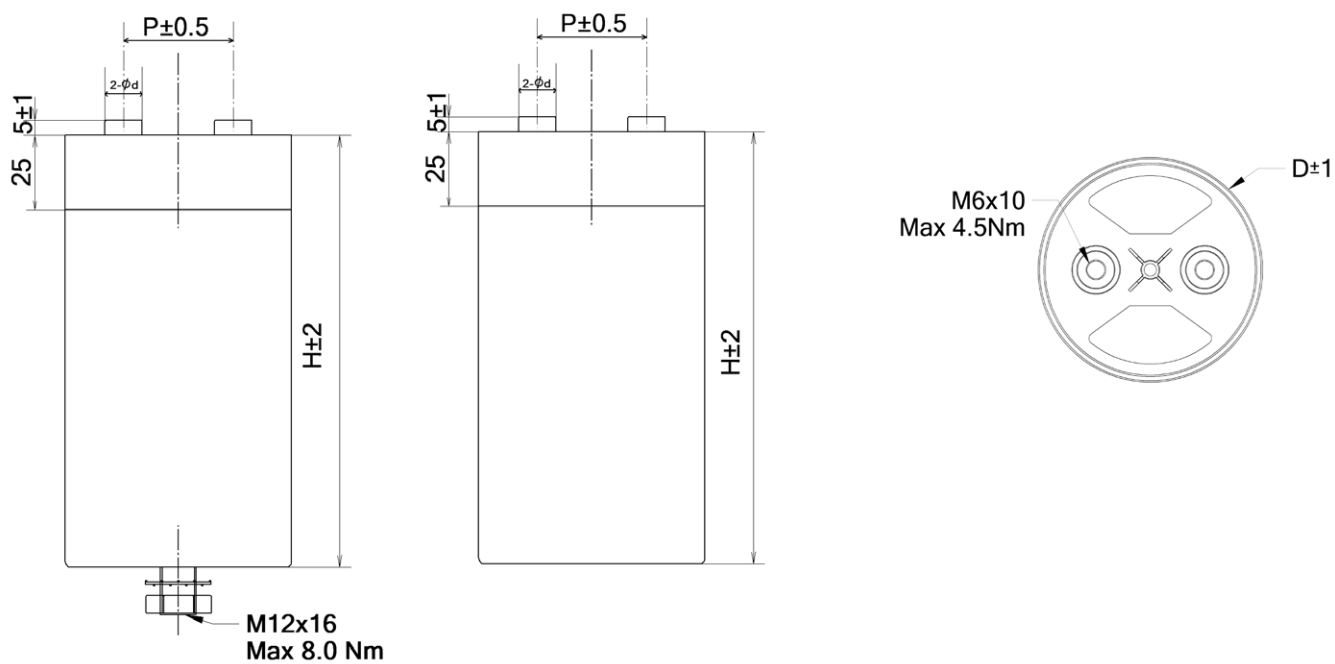
Statements on lifetime can become misleading as they may imply unreasonable assumptions; with clever derating of temperatures and operating voltages, one may create the illusion that a capacitor should last a million hours or more, while such statement would be purely theoretical and impossible to prove (even more so that most of the design features used in modern capacitors have not been in use for more than 20 years and would therefore not be backed up by any empirical references). Another problem with lifetime statements is that they do not inform about failures during the "rated" lifetime, and – in turn – may create the impression that after the expiration of the "rated" lifetime, the capacitor shall be exhausted, or fail. Any engineer will agree from own experience that in reality, there are components which may last much longer even under harder conditions, whilst others may fail prematurely.

5.6 Failure Modes

Plastic dielectric film capacitors can undergo two classic failure modes: open or shorts or high resistance shorts. In addition to these failures, capacitors may fail due to capacitance drift, instability with temperature, high dissipation factor or low insulation resistance. Failures can be the result of electrical, mechanical or environmental overstress, due to dielectric degradation during operation.

K36 TYPE -40°C +85°C 100000H

Applications	Inverter, Motor drive, Switch power supply
Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Cylinder aluminum case
Terminals	Brass terminals (lead-free)
Operating temperature range	-40 to +85°C
Capacitance	18 to 2700μF
Rated Voltage	900 to 4000 VDC
Tolerance	±5%, ±10%
Dissipation factor	≤3×10 ⁻³ Measured at 100 Hz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	Un≤1300V, 3KVAC (10s, 50Hz) Un>1300V, 1.5Un+1000VAC (10s, 50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)



DISK DIMENSIONS

D= 76, 86 mm	D= 96 mm	D= 116 mm	D= 136 mm
d= 12.5 mm	d= 12.5 mm	d= 14 mm	d= 14 mm
P= 32 mm	P= 45 mm	P= 50 mm	P= 50 mm

K36 TYPE STANDARD RATINGS

**RATED
VOLTAGE
900VDC**

Cap μF	$\varnothing \times L$ mm	ESR TYP $\text{m}\Omega$	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
280	76x95	1,9	50	2240	4,6	41	K36900281_6K0K095
380	86x95	1,8	50	3040	3,9	47	K36900381_6K0Q095
390	76x120	2,1	60	2340	4,1	41	K36900391_6K0K120
450	76x145	1,2	45	4500	3,7	58	K36900451_6K0K145
520	86x120	1,9	60	3120	3,5	47	K36900521_6K0Q120
570	76x175	1,3	50	4560	3,3	60	K36900571_6K0K175
600	86x145	1,1	45	6000	3,2	64	K36900601_6K0Q145
630	96x125	1,8	60	3780	3	53	K36900631_6K0R125
700	116x100	1,6	50	5600	2,6	61	K36900701_6K0T100
850	96x150	1,1	45	7300	2,7	70	K36900851_6K0R150
750	86x175	1,2	50	6000	2,9	66	K36900751_6K0Q175
780	76x225	1,4	60	4680	2,9	62	K36900781_6K0K225
920	96x180	1,1	50	7360	2,5	73	K36900921_6K0R180
1000	136x100	1,5	50	8000	2,1	70	K36900102_6K0U100
1000	116x125	1,6	60	6000	2,3	63	K36900102_6K0T125
1050	86x225	1,3	60	6300	2,5	69	K36900102_6K0Q225
1050	116x150	1,1	45	10500	2,1	81	K36900102_6K0T150
1200	96x230	1,2	60	7200	2,2	75	K36900122_6K0R230
1300	136x125	1,6	60	7800	1,9	72	K36900132_6K0U125
1450	116x180	1,1	50	11600	2	84	K36900142_6K0T180
1500	136x150	1	45	26639	1,7	91	K36900152_6K0U150
1900	136x180	1	50	15200	1,6	94	K36900192_6K0U180
2000	116x230	1,1	60	12000	1,7	88	K36900202_6K0T230
2700	136x230	1,1	60	16200	1,4	99	K36900272_6K0U230

K36 TYPE STANDARD RATINGS

**RATED
VOLTAGE
1100VDC**

Cap μF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
180	76x95	2,1	50	1440	4,6	40	K36111181_6K0K095
230	86x95	1,9	50	1840	3,9	45	K36111231_6K0Q095
250	76x120	2,3	60	1500	4,1	40	K36111251_6K0K120
280	76x145	1,3	45	2800	3,7	56	K36111281_6K0K145
300	96x100	1,8	50	2400	3,3	51	K36111301_6K0R100
330	86x120	2,1	60	1980	3,5	45	K36111331_6K0Q120
350	76x175	1,4	50	2800	3,3	58	K36111351_6K0K175
400	96x125	1,9	60	2400	3	51	K36111401_6K0R125
400	86x145	1,2	45	4000	3,2	63	K36111401_6K0Q145
420	86x136	2,1	60	1974	3,3	40	K36111421_6K0Q136
450	116x100	1,6	50	3600	2,6	60	K36111451_6K0T100
460	96x150	1,1	45	4600	2,7	69	K36111461_6K0R150
480	76x225	1,5	60	2880	2,9	59	K36111481_6K0K225
500	86x175	1,2	50	4000	2,9	65	K36111501_6K0Q175
600	96x180	1,2	50	4800	2,5	71	K36111601_6K0R180
630	136x100	1,5	50	5040	2,1	69	K36111631_6K0U100
650	116x125	1,7	60	3900	2,3	62	K36111651_6K0T125
680	86x225	1,3	60	4080	2,5	67	K36111681_6K0Q225
730	116x150	1,1	45	7300	2,1	81	K36111731_6K0T150
800	96x230	1,3	60	4800	2,2	74	K36111801_6K0R230
900	136x125	1,6	60	5400	1,9	71	K36111901_6K0U125
920	116x180	1,1	50	7360	2	83	K36111921_6K0T180
1000	136x150	1	45	22433	1,7	91	K36111102_6K0U150
1200	136x180	1,1	50	9600	1,6	93	K36111122_6K0U180
1250	116x230	1,2	60	7500	1,7	87	K36111122_6K0T230
1700	136x230	1,1	60	10200	1,4	98	K36111172_6K0U230

K36 TYPE STANDARD RATINGS

**RATED
VOLTAGE
1200VDC**

Cap μF	$\varnothing \times L$ mm	ESR TYP $\text{m}\Omega$	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
150	76x95	2,1	50	1200	4,6	39	K36121151_6K0K095
200	86x95	1,9	50	1600	3,9	45	K36121201_6K0Q095
220	76x120	2,4	60	1320	4,1	39	K36121221_6K0K120
240	76x145	1,3	45	2400	3,7	56	K36121241_6K0K145
250	96x100	1,8	50	2000	3,3	50	K36121251_6K0R100
270	86x120	2,1	60	1620	3,5	45	K36121271_6K0Q120
300	76x175	1,4	50	2400	3,3	57	K36121301_6K0K175
310	86x145	1,2	45	3100	3,2	63	K36121311_6K0Q145
380	116x100	1,6	50	3040	2,6	60	K36121381_6K0T100
380	96x150	1,2	45	3800	2,7	69	K36121381_6K0R150
400	76x225	1,5	60	2400	2,9	59	K36121401_6K0K225
420	86x175	1,3	50	3360	2,9	64	K36121421_6K0Q175
470	86x225	1,4	60	2820	2,5	65	K36121471_6K0Q225
500	116x125	1,8	60	3000	2,3	61	K36121501_6K0T125
500	96x180	1,2	50	4000	2,5	71	K36121501_6K0R180
550	116x150	1,1	45	5500	2,1	80	K36121551_6K0T150
530	136x100	1,5	50	4240	2,1	69	K36121531_6K0U100
560	86x225	1,4	60	3360	2,5	66	K36121561_6K0Q225
680	96x230	1,3	60	4080	2,2	74	K36121681_6K0R230
680	116x180	1,1	50	5440	2	82	K36121681_6K0T180
730	136x125	1,6	60	4380	1,9	70	K36121731_6K0U125
850	136x150	1	45	21848	1,7	91	K36121851_6K0U150
950	136x180	1,1	50	7600	1,6	93	K36121951_6K0U180
1000	116x230	1,2	60	6000	1,7	86	K36121102_6K0T230
1200	136x230	1,1	60	7200	1,4	96	K36121122_6K0U230

K36 TYPE STANDARD RATINGS

**RATED
VOLTAGE
2000VDC**

Cap µF	Ø x L mm	ESR TYP mΩ	Ls nH	Ipeak A	Rth K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
55	76x95	2,7	50	440	4,6	35	K36201550_6K0K095
75	86x95	2,3	50	600	3,9	41	K36201750_6K0Q095
75	76x120	3,2	60	450	4,1	34	K36201750_6K0K120
85	76x145	1,5	45	850	3,7	51	K36201850_6K0K145
90	96x100	2,2	50	720	3,3	46	K36201900_6K0R100
100	86x120	2,7	60	600	3,5	40	K36201101_6K0Q120
110	76x175	1,7	50	880	3,3	52	K36201111_6K0K175
110	86x145	1,4	45	1100	3,2	58	K36201111_6K0Q145
125	96x125	2,4	60	750	3	45	K36201121_6K0R125
140	116x100	1,9	50	1120	2,6	56	K36201141_6K0T100
140	96x150	1,3	45	1400	2,7	65	K36201141_6K0R150
150	86x175	1,5	50	1200	2,9	60	K36201151_6K0Q175
150	76x225	1,9	60	900	2,9	53	K36201151_6K0K225
190	116x125	2	60	1140	2,3	56	K36201191_6K0T125
190	96x180	1,4	50	1520	2,5	67	K36201191_6K0R180
200	136x100	1,7	50	1600	2,1	66	K36201201_6K0U100
200	86x225	1,7	60	1200	2,5	60	K36201201_6K0Q225
220	116x150	1,2	45	2200	2,1	77	K36201221_6K0T150
250	96x230	1,5	60	1500	2,2	68	K36201251_6K0R230
275	136x125	1,8	60	1650	1,9	66	K36201271_6K0U125
280	116x180	1,2	50	2240	2	79	K36201281_6K0T180
310	136x150	1,1	45	12749	1,7	88	K36201311_6K0U150
380	116x230	1,3	60	2280	1,7	81	K36201381_6K0T230
400	136x180	1,1	50	3200	1,6	90	K36201401_6K0U180
540	136x230	1,2	60	3240	1,4	93	K36201541_6K0U230

**RATED
VOLTAGE
3000VDC**

Cap µF	Ø x L mm	ESR TYP mΩ	Ls nH	Ipeak A	Rth K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
35	76x145	3,8	45	350	3,7	33	K36301350_6K0K145
39	76x175	4,6	50	312	3,3	31	K36301390_6K0K175
47	86x145	3,4	45	470	3,2	37	K36301470_6K0Q145
60	96x150	3,1	45	600	2,7	42	K36301600_6K0R150
60	86x175	3,7	50	480	2,9	38	K36301600_6K0Q175
60	76x225	5	60	360	2,9	32	K36301600_6K0K225
75	96x180	3,4	50	600	2,5	42	K36301750_6K0R180
82	86x225	4,2	60	492	2,5	38	K36301820_6K0Q225
92	116x150	2,7	45	920	2,1	51	K36301920_6K0T150
100	96x230	3,8	60	600	2,2	43	K36301101_6K0R230
100	116x180	3	50	800	2	50	K36301101_6K0T180
120	116x180	2,8	50	960	2	52	K36301121_6K0T180
130	136x150	2,5	45	1300	1,7	59	K36301131_6K0U150
150	116x230	3,2	60	900	1,7	52	K36301151_6K0T230
160	136x180	2,6	50	1280	1,6	59	K36301161_6K0U180
180	136x230	3	60	1080	1,4	59	K36301181_6K0U230

K36 TYPE STANDARD RATINGS

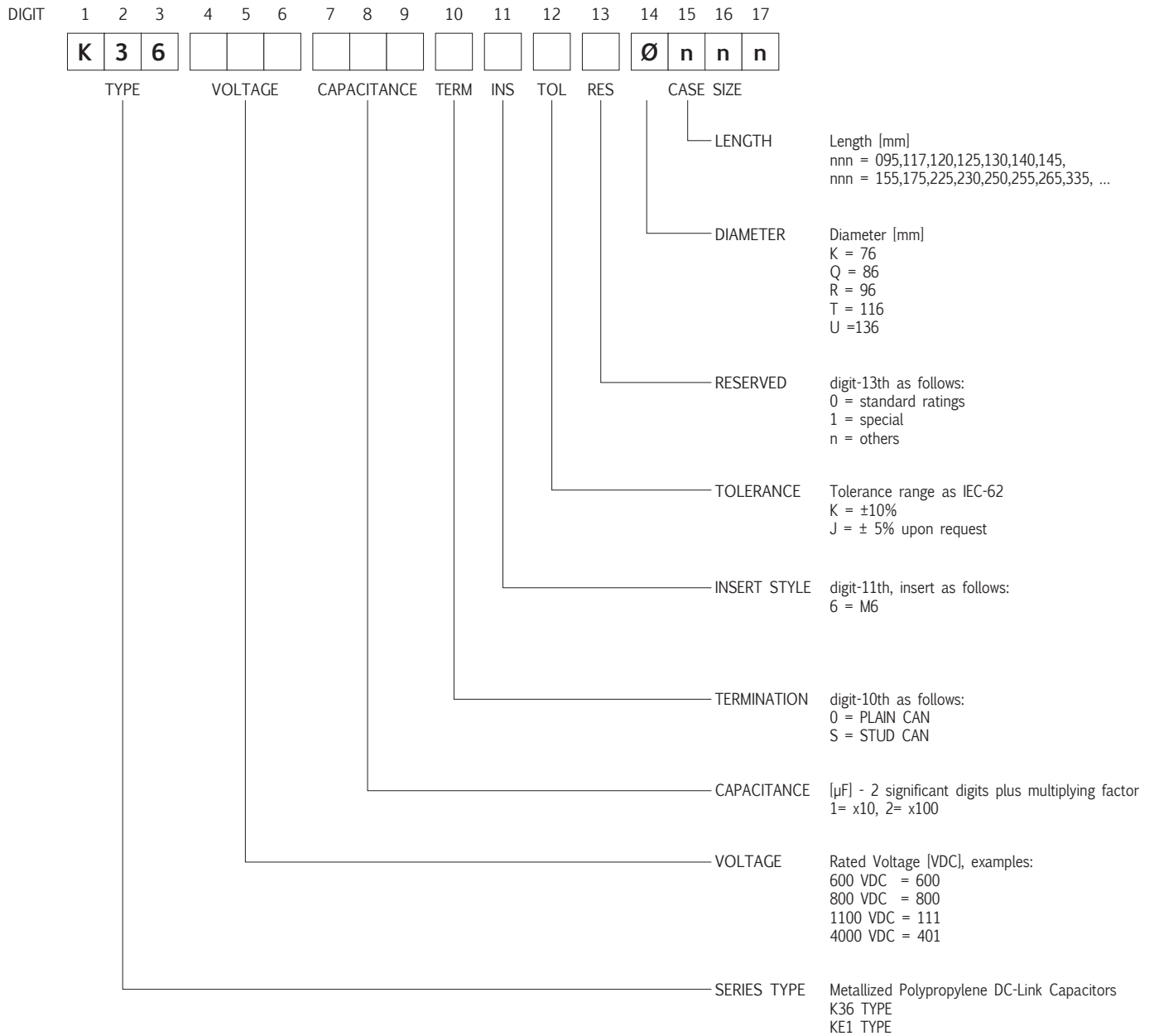
Cap μF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
22	76x145	4,2	45	220	3,7	31	K36361220_6K0K145
28	76x175	4,8	50	224	3,3	31	K36361280_6K0K175
30	86x145	3,6	45	300	3,2	36	K36361300_6K0Q145
36	96x150	3,4	45	360	2,7	40	K36361360_6K0R150
38	86x175	4,1	50	304	2,9	36	K36361380_6K0Q175
38	76x225	5,7	60	228	2,9	30	K36361380_6K0K225
46	96x180	3,7	50	368	2,5	40	K36361460_6K0R180
50	86x225	4,8	60	300	2,5	35	K36361500_6K0Q225
55	116x150	2,9	45	550	2,1	49	K36361550_6K0T150
62	96x230	4,3	60	886	2,2	40	K36361620_6K0R230
70	116x180	3,1	50	1357	2,0	49	K36361700_6K0T180
75	136x150	2,7	45	1851	1,7	57	K36361750_6K0U150
88	116x230	3,6	60	1257	1,7	49	K36361880_6K0T230
100	136x280	2,8	50	1939	1,6	58	K36361101_6K0U280
125	136x230	3,1	60	1786	1,4	58	K36361121_6K0U230

**RATED
VOLTAGE
3600VDC**

Cap μF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
18	76x145	4,6	45	180	3,7	30	K36401180_6K0K145
23	76x175	5,2	50	184	3,3	29	K36401230_6K0K175
23	86x145	4	45	230	3,2	34	K36401230_6K0Q145
30	96x150	3,5	45	300	2,7	39	K36401300_6K0R150
30	86x175	4,4	50	240	2,9	34	K36401300_6K0Q175
30	76x225	6,4	60	180	2,9	29	K36401300_6K0K225
38	96x180	3,9	50	304	2,5	39	K36401380_6K0R180
40	86x225	5,3	60	240	2,5	34	K36401400_6K0Q225
45	116x150	3	45	450	2,1	48	K36401450_6K0T150
50	96x230	4,6	60	300	2,2	39	K36401500_6K0R230
55	116x180	3,3	50	440	2	48	K36401550_6K0T180
65	136x150	2,7	45	650	1,7	56	K36401650_6K0U150
70	116x230	3,9	60	420	1,7	47	K36401700_6K0T230
82	136x180	2,9	50	656	1,6	57	K36401820_6K0U180
100	136x230	3,3	60	600	1,4	56	K36401101_6K0U230

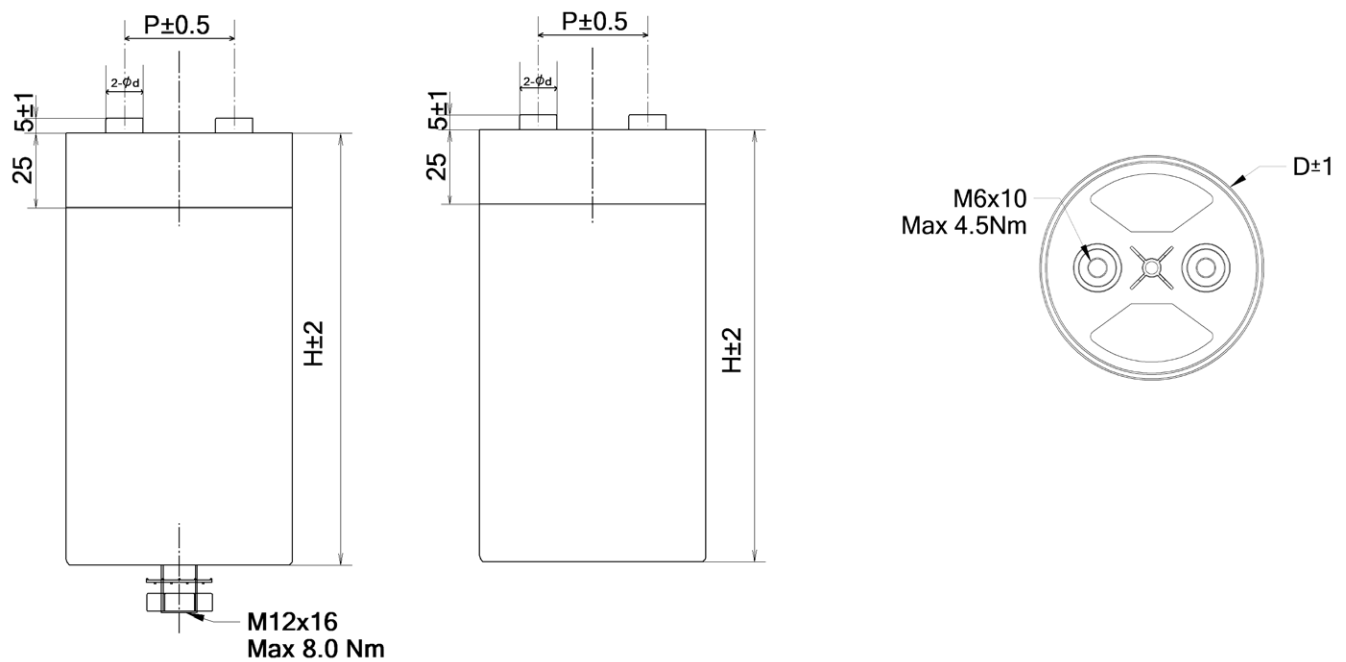
**RATED
VOLTAGE
4000VDC**

PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS



KE1 TYPE -40°C +85°C 100000H

Applications	Inverter, Motor drive, Switch power supply
Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Cylinder aluminum case
Terminals	Brass terminals (lead-free)
Operating temperature range	-40 to +85°C
Capacitance	180 to 4800 μ F
Rated Voltage	700 to 1200 VDC
Tolerance	$\pm 5\%$, $\pm 10\%$
Dissipation factor	$\leq 3 \times 10^{-3}$ Measured at 100 Hz and 20 $\pm 5^\circ$ C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20 $\pm 5^\circ$ C
Test voltage terminal to case	Un $\leq$ 1300V, 3KVAC (10s, 50Hz) Un $>$ 1300V, 1.5Un+1000VAC (10s, 50Hz)
Insulation resistance	30000s but not exceed 30G Ω , after 1 minute of electrification at 100VDC (20 $\pm 5^\circ$ C)



DISK DIMENSIONS

D= 76,86 mm	D= 96 mm	D= 116 mm	D= 136 mm
d= 12.5 mm	d= 12.5 mm	d= 14 mm	d= 14 mm
P= 32 mm	P= 45 mm	P= 50 mm	P= 50 mm

KE1 TYPE STANDARD RATINGS

**RATED
VOLTAGE
700VDC**

Cap μF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
500	76x95	1,8	≤50	1652	4,6	43	KE1700501_6K0K095
680	86x95	1,6	≤50	2247	3,9	48	KE1700681_6K0Q095
700	76x120	1,9	≤60	1705	4,1	44	KE1700701_6K0K125
800	76x145	1,1	≤45	3365	3,7	60	KE1700801_6K0K145
845	96x100	1,6	≤50	2793	3,3	54	KE1700841_6K0R100
900	86x120	1,8	≤60	2192	3,5	49	KE1700901_6K0Q120
1000	76x175	1,2	≤50	3305	3,3	62	KE1700102_6K0K175
1050	86x145	1,1	≤45	4416	3,2	66	KE1700102_6K0Q145
1100	96x125	1,7	≤60	2679	3,0	55	KE1700112_6K0R125
1200	116x100	1,5	≤50	3966	2,6	60	KE1700122_6K0T100
1300	96x150	1,1	≤45	5468	2,7	72	KE1700132_6K0R150
1300	86x175	1,1	≤50	4296	2,9	68	KE1700132_6K0Q175
1300	76x225	1,3	≤60	3166	2,9	64	KE1700132_6K0K225
1600	96x180	1,1	≤50	5288	2,5	74	KE1700162_6K0R180
1600	116x125	1,6	≤60	3896	2,3	60	KE1700162_6K0T125
1700	136x100	1,4	≤50	5618	2,1	60	KE1700172_6K0U100
1700	86x225	1,2	≤60	4140	2,5	71	KE1700172_6K0Q225
1900	116x150	1,0	≤45	7992	2,1	82	KE1700192_6K0T150
2200	96x230	1,1	≤60	5357	2,2	78	KE1700222_6K0R230
2400	136x125	1,5	≤60	5844	1,9	60	KE1700242_6K0U125
2400	116x180	1,0	≤50	7932	2,0	85	KE1700242_6K0T180
2800	136x150	1,0	≤45	11777	1,7	93	KE1700282_6K0U150
3300	116x230	1,1	≤60	8036	1,7	90	KE1700332_6K0T230
3500	136x180	1,0	≤50	11567	1,6	96	KE1700352_6K0U180
4800	136x230	1,0	≤60	11689	1,4	100	KE1700482_6K0U230

KE1 TYPE STANDARD RATINGS

**RATED
VOLTAGE
800VDC**

Cap μF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
370	76x95	1,8	≤50	1427	4,6	42	KE1800371_6K0K095
490	86x95	1,7	≤50	1889	3,9	48	KE1800491_6K0Q095
500	76x120	2,0	≤60	1420	4,1	43	KE1800501_6K0K120
580	76x145	1,2	≤45	2846	3,7	59	KE1800581_6K0K145
600	96x100	1,6	≤50	2313	3,3	53	KE1800601_6K0R100
680	86x120	1,8	≤60	1932	3,5	49	KE1800681_6K0Q120
700	76x175	1,2	≤50	2699	3,3	60	KE1800701_6K0K175
750	86x145	1,1	≤45	3680	3,2	65	KE1800751_6K0Q145
820	96x125	1,7	≤60	2330	3,0	54	KE1800821_6K0R125
900	116x100	1,5	≤50	3470	2,6	60	KE1800901_6K0T100
900	96x150	1,1	≤45	4416	2,7	71	KE1800901_6K0R150
950	86x175	1,2	≤50	3663	2,9	67	KE1800951_6K0Q175
1000	76x225	1,3	≤60	2841	2,9	63	KE1800102_6K0K225
1200	96x180	1,1	≤50	4627	2,5	74	KE1800122_6K0R180
1200	116x125	1,6	≤60	3409	2,3	63	KE1800122_6K0T125
1300	136x100	1,5	≤50	5012	2,1	60	KE1800132_6K0U100
1300	86x225	1,2	≤60	3693	2,5	70	KE1800132_6K0Q225
1400	116x150	1,0	≤45	6870	2,1	82	KE1800142_6K0T150
1600	96x230	1,2	≤60	4546	2,2	77	KE1800162_6K0R230
1700	136x125	1,5	≤60	4830	1,9	60	KE1800172_6K0U125
1800	116x180	1,1	≤50	6940	2,0	85	KE1800182_6K0T180
2000	136x150	1,0	≤45	9814	1,7	92	KE1800202_6K0U150
2400	116x230	1,1	≤60	6818	1,7	89	KE1800242_6K0T230
2500	136x180	1,0	≤50	9639	1,6	95	KE1800252_6K0U180
3500	136x230	1,1	≤60	9943	1,4	100	KE1800352_6K0U230

KE1 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
220	76x95	2,0	≤50	1042	4,6	40	KE1111221_6K0K095
300	86x95	1,8	≤50	1421	3,9	46	KE1111301_6K0Q095
300	76x120	2,3	≤60	1047	4,1	40	KE1111301_6K0K120
345	76x145	1,2	≤45	2080	3,7	57	KE1111341_6K0K145
360	96x100	1,7	≤50	1705	3,3	51	KE1111361_6K0R100
400	86x120	2,0	≤60	1396	3,5	46	KE1111401_6K0Q120
450	76x175	1,3	≤50	2132	3,3	59	KE1111451_6K0K175
460	86x145	1,2	≤45	2773	3,2	63	KE1111461_6K0Q145
490	96x125	1,9	≤60	1710	3,0	52	KE1111491_6K0R125
550	96x150	1,1	≤45	3316	2,7	70	KE1111551_6K0R150
550	116x100	1,6	≤50	2605	2,6	60	KE1111551_6K0T100
600	86x175	1,2	≤50	2842	2,9	65	KE1111601_6K0Q175
600	76x225	1,4	≤60	2094	2,9	60	KE1111601_6K0K225
720	96x180	1,2	≤50	3411	2,5	72	KE1111721_6K0R180
750	116x125	1,7	≤60	2618	2,3	60	KE1111751_6K0T125
800	136x100	1,5	≤50	3790	2,1	60	KE1111801_6K0U100
800	86x225	1,3	≤60	2792	2,5	68	KE1111801_6K0Q225
850	116x150	1,1	≤45	5124	2,1	81	KE1111851_6K0T150
980	96x230	1,2	≤60	3421	2,2	75	KE1111981_6K0R230
1050	136x125	1,6	≤60	3665	1,9	60	KE1111102_6K0U125
1050	116x180	1,1	≤50	4974	2,0	83	KE1111102_6K0T180
1200	136x150	1,0	≤45	7234	1,7	91	KE1111122_6K0U150
1400	116x230	1,2	≤60	4886	1,7	87	KE1111142_6K0T230
1500	136x180	1,1	≤50	7105	1,6	94	KE1111152_6K0U180
2100	136x230	1,1	≤60	7330	1,4	98	KE1111212_6K0U230

**RATED
VOLTAGE
1100VDC**

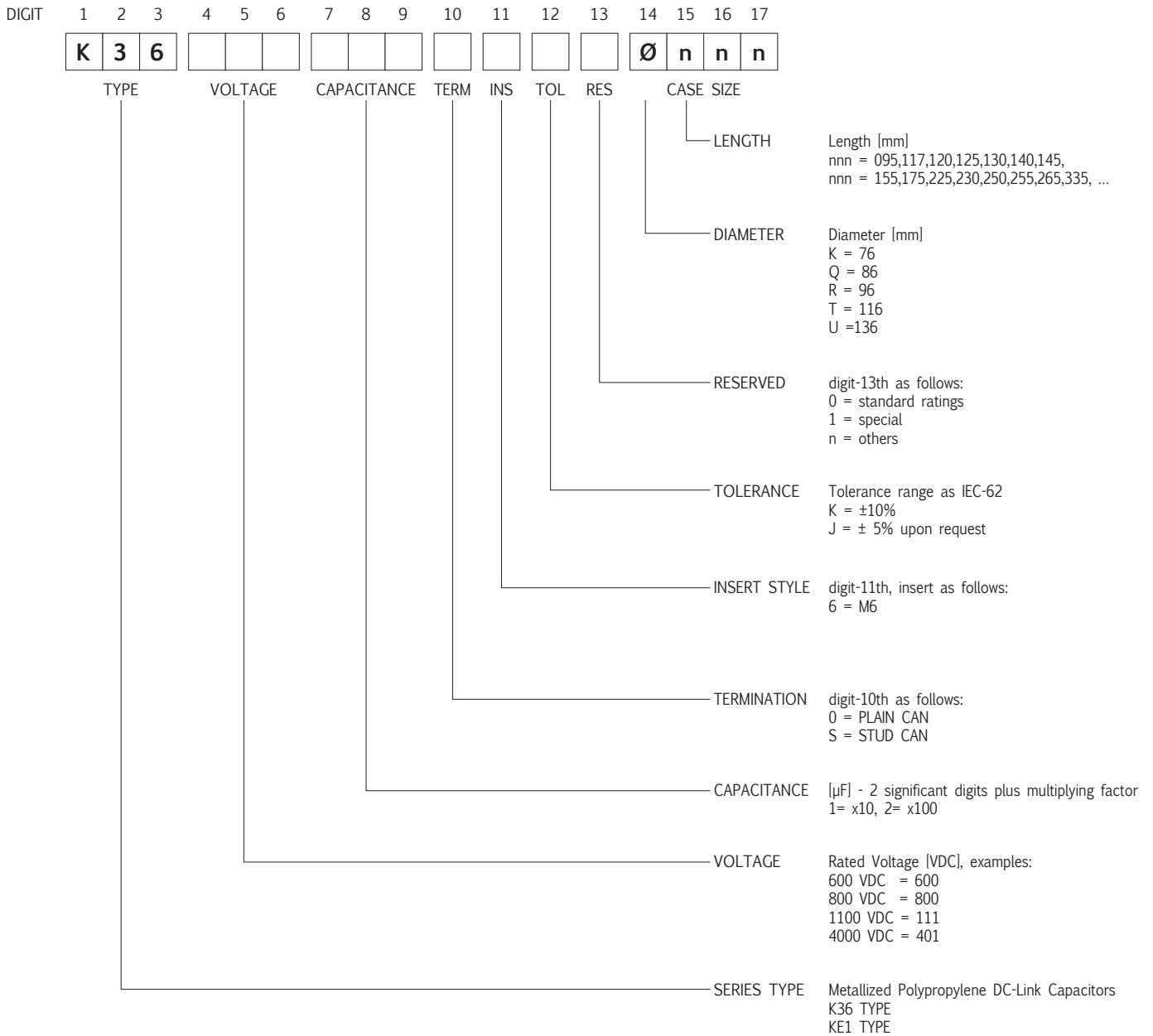
KE1 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	ESR TYP mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _r ms 10 kHz 45°C	PART NUMBER Termination digit excluded
180	76x95	2,1	≤50	952	4,6	40	KE1121181_6K0K095
230	86x95	1,9	≤50	1216	3,9	45	KE1121231_6K0Q095
250	76x120	2,3	≤60	974	4,1	40	KE1121251_6K0K120
280	76x145	1,3	≤45	1884	3,7	56	KE1121281_6K0K145
300	96x100	1,8	≤50	1586	3,3	51	KE1121301_6K0R100
330	86x120	2,1	≤60	1286	3,5	45	KE1121331_6K0Q120
360	76x175	1,3	≤50	1904	3,3	58	KE1121361_6K0K175
380	86x145	1,2	≤45	2557	3,2	63	KE1121381_6K0Q145
400	96x125	1,9	≤60	1558	3,0	51	KE1121401_6K0R125
450	116x100	1,6	≤50	2379	2,6	60	KE1121451_6K0T100
480	86x175	1,2	≤50	2538	2,9	65	KE1121481_6K0Q175
500	76x225	1,5	≤60	1948	2,9	60	KE1121501_6K0K225
580	96x180	1,2	≤50	3067	2,5	71	KE1121581_6K0R180
600	116x125	1,7	≤60	2338	2,3	60	KE1121601_6K0T125
650	136x100	1,5	≤50	3437	2,1	60	KE1121651_6K0U100
680	86x225	1,3	≤60	2649	2,5	67	KE1121681_6K0Q225
700	116x150	1,1	≤45	4711	2,1	80	KE1121701_6K0T150
780	96x230	1,3	≤60	3039	2,2	74	KE1121781_6K0R230
880	136x125	1,6	≤60	3429	1,9	60	KE1121881_6K0U125
880	116x180	1,1	≤50	4653	2,0	83	KE1121881_6K0T180
1000	136x150	1,0	≤45	6730	1,7	91	KE1121102_6K0U150
1200	116x230	1,2	≤60	4675	1,7	86	KE1121122_6K0T230
1300	136x180	1,1	≤50	6874	1,6	94	KE1121132_6K0U180
1700	136x230	1,1	≤60	6624	1,4	98	KE1121172_6K0U230

**RATED
VOLTAGE
1200VDC**

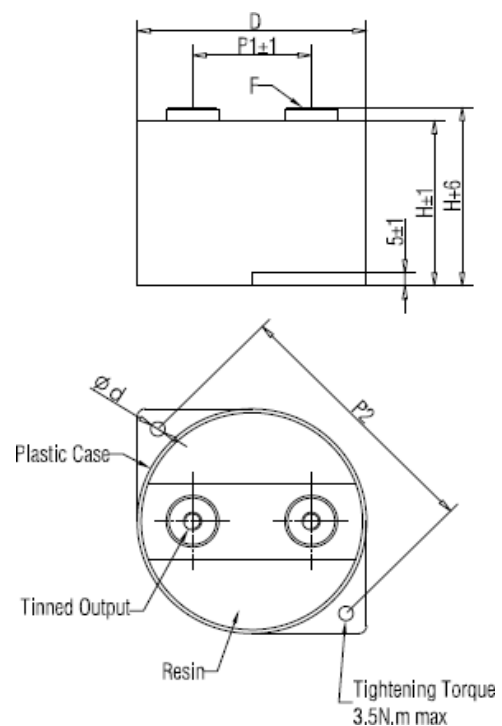
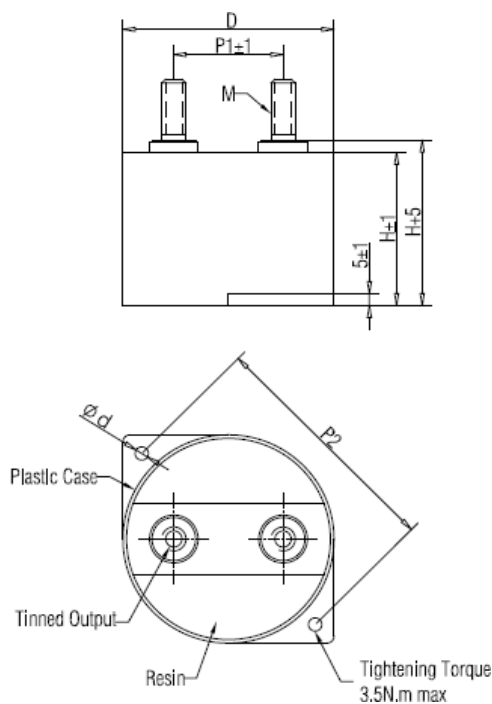
PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits



K37 TYPE -40°C +105°C 100000H

Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Solvent resistant plastic case. Flammability class UL94 V-0
Operating temperature range	-40 to +105 °C (Hotspot temperature)
Capacitance	6,8 to 500µF
Rated Voltage	500 to 2200 VDC
Tolerance	±5%, ±10%
Dissipation factor	≤2×10 ⁻³ Measured at 100 Hz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	3KVAC/50Hz for 60s
Insulation resistance	≥30000 s , after 1 minute of electrification at 100VDC (20±5°C)



Case code	D (mm)	M	Torque	F	Torque	P1 (mm)	P2 (mm)	d (mm)
A	87	M8*20	8.5 N.M Max	M6*8	4.5 N.M Max	45	101	5,5
B	115	M10*20	12 N.M Max	M8*8	8.5 N.M Max	60	133	6,5

VOLTAGE LEVEL

Un @ 85°C	500V	600V	700V	800V	900V	1000V	1100V	1200V	1500V	1800V	2000V	2200V
Un @105°C	365V	435V	510V	580V	655V	730V	800V	875V	1095V	1310V	1460V	1605V

K37 TYPE STANDARD RATINGS

Cap μF	Ø x H mm mm	Ls nH	du/dt V/μs	Max@45°C @10KHz (A)	ESR @10KHz (mΩ)	Rth K/W	PART NUMBER Insert excluded	
125	87 41	≤25	15	90	1,2	6,8	K375001210_KOL041	
200	87 51	≤32	9	90	1,2	5,9	K375002010_KOL051	
275	87 65	≤40	7	85	1,3	5,0	K375002710_KOL065	
350	115 51	≤32	10	120	1,0	4,1	K375003510_KOS051	
500	115 65	≤40	6	125	1,1	3,5	K375005010_KOS065	

**RATED
VDC**

500V

Cap μF	Ø x H mm mm	Ls nH	du/dt V/μs	Max@45°C @10KHz (A)	ESR @10KHz (mΩ)	Rth K/W	PART NUMBER Insert excluded	
100	87 41	≤25	15	90	1,3	6,8	K377001010_KOL041	
150	87 51	≤32	11	90	1,3	5,9	K377001510_KOL051	
220	87 65	≤40	7	85	1,4	5,0	K377002210_KOL065	
250	115 51	≤32	11	115	1,1	4,1	K377002510_KOS051	
350	115 65	≤40	7	120	1,1	3,5	K377003510_KOS065	

**RATED
VDC**

700V

Cap μF	Ø x H mm mm	Ls nH	du/dt V/μs	Max@45°C @10KHz (A)	ESR @10KHz (mΩ)	Rth K/W	PART NUMBER Insert excluded	
68	87 41	≤25	19	80	1,5	6,8	K379006800_KOL041	
100	87 51	≤32	12	80	1,5	5,9	K379001010_KOL051	
140	87 65	≤40	8	75	1,5	5,0	K379001410_KOL065	
200	115 51	≤32	12	110	1,2	4,1	K379002010_KOS051	
300	115 65	≤40	8	115	1,2	3,5	K379003010_KOS065	

**RATED
VDC**

900V

Cap μF	Ø x H mm mm	Ls nH	du/dt V/μs	Max@45°C @10KHz (A)	ESR @10KHz (mΩ)	Rth K/W	PART NUMBER Insert excluded	
47	87 41	≤25	22	75	1,8	6,8	K371114700_KOL041	
68	87 51	≤32	15	75	1,7	5,9	K371116800_KOL051	
100	87 65	≤40	10	70	1,7	5,0	K371111010_KOL065	
125	115 51	≤32	15	105	1,3	4,1	K371111210_KOS051	
180	115 65	≤40	10	110	1,3	3,5	K371111810_KOS065	

**RATED
VDC**

1100V

K37 TYPE STANDARD RATINGS

Cap μF	$\varnothing \times H$ mm mm		Ls nH	du/dt V/ μs	Max@45°C @10KHz (A)	ESR @10KHz (m Ω)	Rth K/W	PART NUMBER Insert excluded	
25	87	41	≤ 25	30	60	2,5	6,8	K371212500_KOL041	
35	87	51	≤ 32	22	60	2,2	5,9	K371213500_KOL051	
50	87	65	≤ 40	14	55	2,2	5,0	K371215000_KOL065	
60	115	51	≤ 32	22	100	1,7	4,1	K371216000_KOS051	
80	115	65	≤ 40	14	110	1,7	3,5	K371218000_KOS065	

**RATED
VDC**

1200V

Cap μF	$\varnothing \times H$ mm mm		Ls nH	du/dt V/ μs	Max@45°C @10KHz (A)	ESR @10KHz (m Ω)	Rth K/W	PART NUMBER Insert excluded	
18	87	41	≤ 25	36	55	3,0	6,8	K371511800_KOL041	
25	87	51	≤ 32	25	55	2,7	5,9	K371512500_KOL051	
35	87	65	≤ 40	16	50	2,7	5,0	K371513500_KOL065	
47	115	51	≤ 32	24	100	1,8	4,1	K371514700_KOS051	
68	115	65	≤ 40	16	105	1,8	3,5	K371516800_KOS065	

**RATED
VDC**

1500V

Cap μF	$\varnothing \times H$ mm mm		Ls nH	du/dt V/ μs	Max@45°C @10KHz (A)	ESR @10KHz (m Ω)	Rth K/W	PART NUMBER Insert excluded	
10	87	41	≤ 25	48	50	4,6	6,8	K371811000_KOL041	
15	87	51	≤ 32	33	50	3,7	5,9	K371811500_KOL051	
22	87	65	≤ 40	22	45	3,4	5,0	K371812200_KOL065	
25	115	51	≤ 32	33	90	2,6	4,1	K371812500_KOS051	
35	115	65	≤ 40	23	100	2,4	3,5	K371813500_KOS065	

**RATED
VDC**

1800V

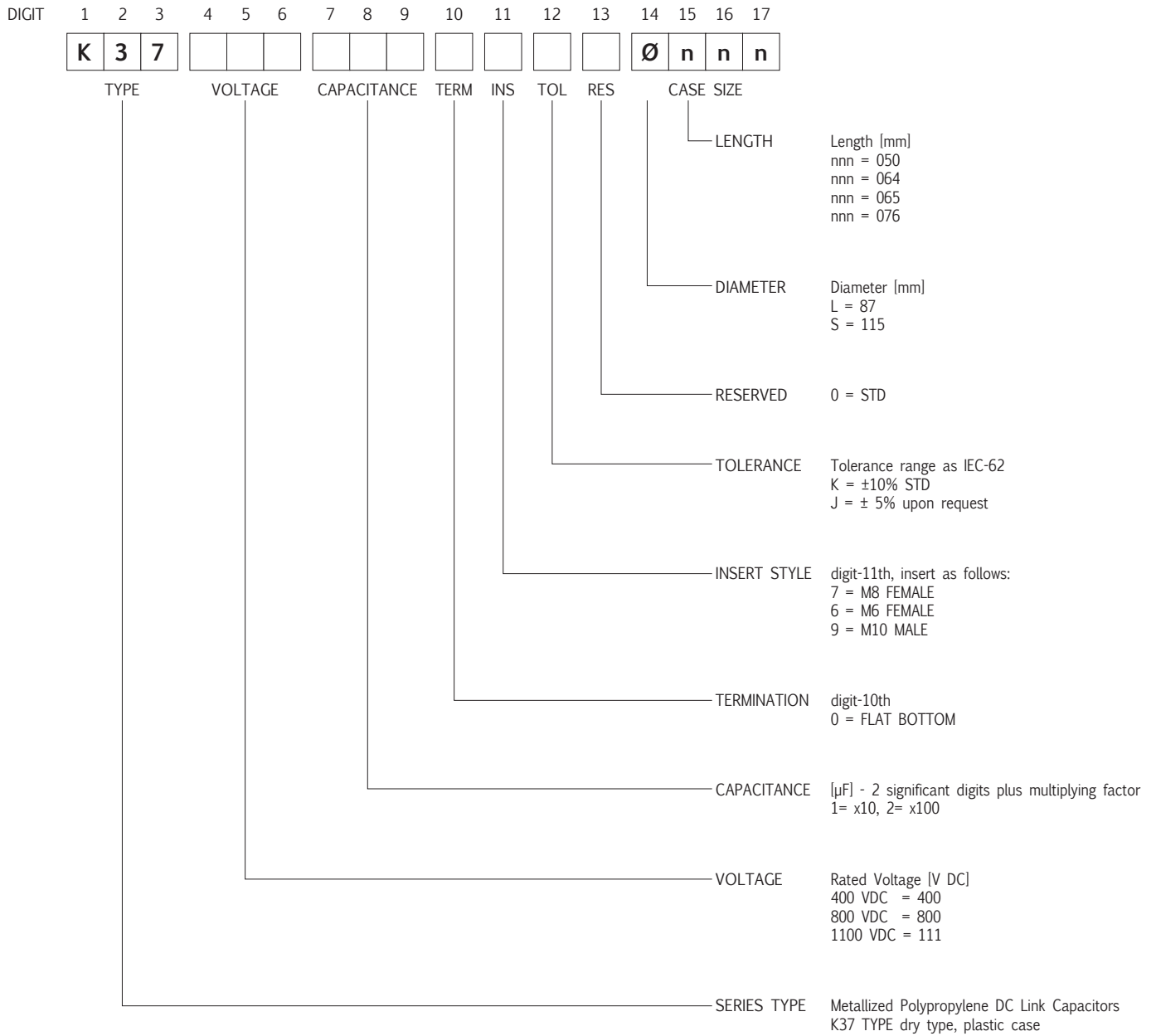
Cap μF	$\varnothing \times H$ mm mm		Ls nH	du/dt V/ μs	Max@45°C @10KHz (A)	ESR @10KHz (m Ω)	Rth K/W	PART NUMBER Insert excluded	
6,8	87	41	≤ 25	61	50	6,2	6,8	K372216D80_KOL041	
10	87	51	≤ 32	41	50	4,9	5,9	K372211000_KOL051	
15	87	65	≤ 40	26	45	4,3	5,0	K372211500_KOL065	
18	115	51	≤ 32	41	90	3,1	4,1	K372211800_KOS051	
25	115	65	≤ 40	28	100	2,8	3,5	K372212500_KOS065	

**RATED
VDC**

2200V

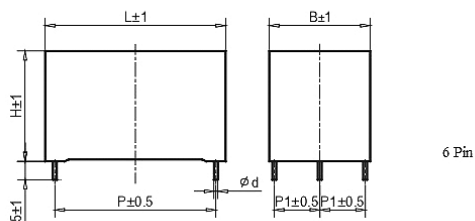
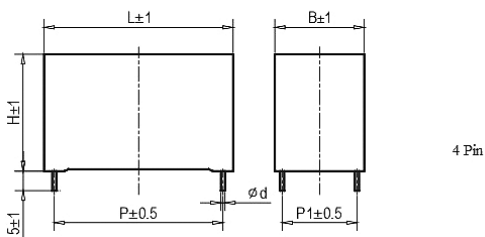
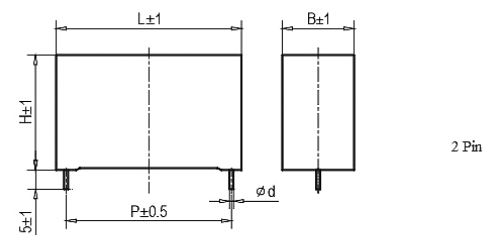
PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits



KE2 TYPE -40°C +105°C 100000H

Applications	DC-Link capacitor for Inverter, DC filtering, HEV, EV motor drive
Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Solvent resistant plastic case. Flammability class UL94 V-0
Terminals	Tinned red copper wire (lead-free). 2, 4 or 6 terminals
Operating temperature range	-40 to +105°C
Capacitance	1.0 to 145μF
Rated Voltage	700 to 1200 VDC
Tolerance	±5%, ±10%
Dissipation factor	≤1.0×10 ⁻³ Measured at 100 Hz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	Un≤1300V, 3KVAC (10s, 50Hz) Un>1300V, 1.5Un+1000VAC (10s, 50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)



DC VOLTAGE RATINGS*

Un at 70°C	500V	600V	700V	800V	900V	1000V	1100V	1200V
Un at 85°C	450V	500V	600V	700V	760V	850V	900V	1000V
Un at 105°C	330V	365V	440V	500V	550V	620V	650V	730V

(*) Voltage derating depending on working temperature

KE2 TYPE STANDARD RATINGS

Cap μF	Dimensions (mm)					du/dt V/μs		Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d					
3,0	9	18	31	27,5		0,8	30	3,6	25,8	KE27003D02PK01BHL
4,0	11	20	31	27,5		0,8	30	4,4	19,9	KE27004D02PK01BHL
6,0	13	22	31	27,5		0,8	30	5,0	13,8	KE27006D02PK01BHL
8,0	15	24,5	31	27,5		0,8	30	5,0	10,7	KE27008D02PK01BHL
10	17	28	31	27,5		0,8	30	5,0	8,8	KE27001002PK01BHL
15	18	33	31	27,5		0,8	30	5,0	6,4	KE27001502PK01BHL
17	22	31	31	27,5	10,2	0,8	30	10,1	5,6	KE27001704PK01BHL
22	22	30	42,5	37,5	10,2	1,2	21	11,3	6,7	KE27002204PK01BHL
40	28	37	42,5	37,5	10,2	1,2	21	15,9	4,2	KE27004004PK01BHL
50	30	45	42,5	37,5	20,3	1,2	21	18,4	3,6	KE27005004PK01BHL
60	33	45	42,5	37,5	20,3	1,2	21	20,1	3,2	KE27006004PK01BHL
80	30	45	57,5	52,5	20,3	1,2	14	19,6	3,9	KE27008004PK01BHL
100	35	50	57,5	52,5	20,3	1,2	14	22,6	3,4	KE27001014PK01BHL
145	42,5	56	57,5	52,5	20,3	1,2	14	22,6	2,7	KE27001414PK11BHL
145	42,5	56	57,5	52,5	10,2	1,2	14	26,6	2,9	KE27001416PK11BHL

**RATED
VOLTAGE
700VDC**

Cap μF	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER	
B	H	L	P	P1	d					
2,0	9	18	31	27,5		0,8	36	3,1	34,9	KE28002D02PK01BHL
3,0	11	20	31	27,5		0,8	36	4,0	24,0	KE28003D02PK01BHL
4,0	13	22	31	27,5		0,8	36	4,9	18,4	KE28004D02PK01BHL
6,0	15	24,5	31	27,5		0,8	36	5,0	12,8	KE28006D02PK01BHL
8,0	17	28	31	27,5		0,8	36	5,0	10,0	KE28008D02PK01BHL
10	18	33	31	27,5		0,8	36	5,0	8,2	KE28001002PK01BHL
12	22	31	31	27,5	10,2	0,8	36	10,0	6,9	KE28001204PK01BHL
16	22	30	42,5	37,5	10,2	1,2	28	10,3	8,0	KE28001604PK01BHL
25	28	37	42,5	37,5	10,2	1,2	28	13,9	5,5	KE28002504PK01BHL
35	30	45	42,5	37,5	20,3	1,2	28	16,9	4,3	KE28003504PK01BHL
42	33	45	42,5	37,5	20,3	1,2	28	18,5	3,7	KE28004204PK01BHL
55	30	45	57,5	52,5	20,3	1,2	16	17,9	4,7	KE28005504PK01BHL
75	35	50	57,5	52,5	20,3	1,2	16	21,4	3,8	KE28007504PK01BHL
110	42,5	56	57,5	52,5	20,3	1,2	16	22,6	2,9	KE28001114PK01BHL
110	42,5	56	57,5	52,5	10,2	1,2	16	25,5	3,1	KE28001116PK01BHL

**RATED
VOLTAGE
800VDC**

KE2 TYPE STANDARD RATINGS

**RATED
VOLTAGE
900VDC**

Cap μF	B	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
H	L	P	P1	d						
1,5	9	18	31	27,5		0,8	45	2,8	44,0	KE29001D52PK01BHL
2,5	11	20	31	27,5		0,8	45	3,8	27,3	KE29002D52PK01BHL
3,3	13	22	31	27,5		0,8	45	4,6	21,1	KE29003D32PK01BHL
4,5	15	24,5	31	27,5		0,8	45	5,0	15,9	KE29004D52PK01BHL
6,0	17	28	31	27,5		0,8	45	5,0	12,3	KE29006D02PK01BHL
8,5	18	33	31	27,5		0,8	45	5,0	9,1	KE29008D52PK01BHL
10	22	31	31	27,5	10,2	0,8	45	9,4	7,7	KE29001004PK01BHL
14	22	30	42,5	37,5	10,2	1,2	32	10,0	8,5	KE29001404PK01BHL
25	28	37	42,5	37,5	10,2	1,2	32	14,2	5,3	KE29002504PK01BHL
33	30	45	42,5	37,5	20,3	1,2	32	16,9	4,3	KE29003304PK01BHL
35	33	45	42,5	37,5	20,3	1,2	32	17,7	4,1	KE29003504PK01BHL
50	30	45	57,5	52,5	20,3	1,2	20	17,7	4,8	KE29005004PK01BHL
65	35	50	57,5	52,5	20,3	1,2	20	20,9	4,0	KE29006504PK01BHL
90	42,5	56	57,5	52,5	20,3	1,2	20	22,6	3,2	KE29009004PK01BHL
90	42,5	56	57,5	52,5	10,2	1,2	20	24,6	3,4	KE29009006PK01BHL

**RATED
VOLTAGE
1100VDC**

Cap μF	B	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
H	L	P	P1	d						
1,2	9	18	31	27,5		0,8	45	2,6	51,5	KE21111D22PK01BHL
2,0	11	20	31	27,5		0,8	45	3,5	31,9	KE21112D02PK01BHL
2,5	13	22	31	27,5		0,8	45	4,1	25,9	KE21112D52PK01BHL
3,5	15	24,5	31	27,5		0,8	45	5,0	19,0	KE21113D52PK01BHL
5,0	17	28	31	27,5		0,8	45	5,0	13,7	KE21115D02OK01BHL
6,0	18	33	31	27,5		0,8	45	5,0	11,7	KE21116D02PK01BHL
6,0	18	33	31	27,5	10,2	0,8	45	7,4	11,5	KE21116D04PK01BHL
7,5	22	31	31	27,5	10,2	0,8	45	8,5	9,4	KE21117D54PK01BHL
10	22	30	42,5	37,5	10,2	1,2	32	9,0	10,5	KE21111004PK01BHL
18	28	37	42,5	37,5	10,2	1,2	32	12,9	6,4	KE21111804PK01BHL
22	30	45	42,5	37,5	20,3	1,2	32	14,9	5,5	KE21112204PK01BHL
25	33	45	42,5	37,5	20,3	1,2	32	16,1	4,9	KE21112504PK01BHL
35	30	45	57,5	52,5	20,3	1,2	20	16,0	5,9	KE21113504PK01BHL
50	35	50	57,5	52,5	20,3	1,2	20	19,7	4,5	KE21115004PK01BHL
65	42,5	56	57,5	52,5	20,3	1,2	20	22,6	3,7	KE21116504PK01BHL

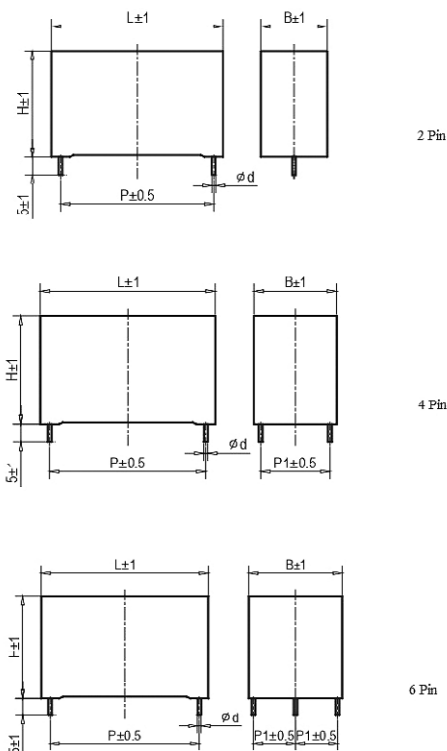
KE2 TYPE STANDARD RATINGS

Cap μF	B	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
1,0	9	18	31	27,5		0,8	50	2,4	58,5	KE21211D02PK01BHL
1,5	11	20	31	27,5		0,8	50	3,1	39,9	KE21211D52PK01BHL
2,0	13	22	31	27,5		0,8	50	3,8	30,4	KE21212D02PK01BHL
3,0	15	24,5	31	27,5		0,8	50	4,9	20,9	KE21213D02PK01BHL
4,0	17	28	31	27,5		0,8	50	5,0	16,0	KE21214D02PK01BHL
5,0	18	33	31	27,5		0,8	50	5,0	13,1	KE21215D02PK01BHL
6,0	22	31	31	27,5	10,2	0,8	50	7,9	11,0	KE21216D04PK01BHL
8,0	22	30	42,5	37,5	10,2	1,2	38	8,4	12,2	KE21218D04PK01BHL
14	28	37	42,5	37,5	10,2	1,2	38	12,0	7,5	KE21211404PK01BHL
18	30	45	42,5	37,5	20,3	1,2	38	14,2	6,1	KE21211804PK01BHL
20	33	45	42,5	37,5	20,3	1,2	38	15,2	5,6	KE21212004PK01BHL
30	30	45	57,5	52,5	20,3	1,2	30	15,6	6,2	KE21213004PK01BHL
40	35	50	57,5	52,5	20,3	1,2	30	18,7	5,0	KE21214004PK01BHL
55	42,5	56	57,5	52,5	20,3	1,2	30	22,6	3,9	KE21215504PK01BHL

**RATED
VOLTAGE
1200VDC**

KE4 TYPE -40°C +105°C 100000H

Applications	DC-Link capacitor for Inverter, DC filtering, HEV, EV motor drive
Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Solvent resistant plastic case. Flammability class UL94 V-0
Terminals	Tinned red copper wire (lead-free). 2, 4 or 6 terminals
Operating temperature range	-40 to +105°C
Capacitance	6 to 90μF
Rated Voltage	700 to 1100 VDC
Tolerance	±5%, ±10%
Dissipation factor	≤1.0×10 ⁻³ Measured at 100 Hz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	Un≤1300V, 3KVAC (10s, 50Hz) Un>1300V, 1.5Un+1000VAC (10s, 50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)



DC VOLTAGE RATINGS*

Un at 70°C	500V	600V	700V	800V	900V	1000V	1100V	1200V
Un at 85°C	450V	500V	600V	700V	760V	850V	900V	1000V
Un at 105°C	330V	365V	440V	500V	550V	620V	650V	730V

(*) Voltage derating depending on working temperature

KE4 TYPE STANDARD RATINGS

Cap μF	B	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
H	L	P	P1	d						
15	22	30	42,5	37,5		1,2	21	10,2	8,2	KE47001502PK01BHL
22	28	37	42,5	37,5		1,2	21	11,3	6,0	KE47002202PK01BHL
22	28	37	42,5	37,5	10,2	1,2	21	13,5	5,8	KE47002204PK01BHL
30	30	45	42,5	37,5		1,2	21	11,3	4,8	KE47003302PK01BHL
30	30	45	42,5	37,5	20,3	1,2	21	16,3	4,6	KE47003304PK01BHL
35	33	45	42,5	37,5		1,2	21	11,3	4,3	KE47003502PK01BHL
35	33	45	42,5	37,5	20,3	1,2	21	17,7	4,1	KE47003504PK01BHL
45	30	45	57,5	52,5		1,2	14	11,3	5,4	KE47004502PK01BHL
45	30	45	57,5	52,5	20,3	1,2	14	17,0	5,2	KE47004504PK01BHL
55	35	50	57,5	52,5		1,2	14	11,3	4,7	KE47005502PK01BHL
55	35	50	57,5	52,5	20,3	1,2	14	19,6	4,5	KE47005504PK01BHL
90	42,5	56	57,5	52,5	20,3	1,2	14	22,6	3,2	KE47009004PK01BHL

**RATED
VOLTAGE
700VDC**

Cap μF	B	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
H	L	P	P1	d						
10	22	30	42,5	37,5		1,2	30	8,9	10,8	KE49001002PK01BHL
15	28	37	42,5	37,5		1,2	30	11,3	7,2	KE49001502PK01BHL
15	28	37	42,5	37,5	10,2	1,2	30	12,3	7,0	KE49001504PK01BHL
20	30	45	42,5	37,5		1,2	30	11,3	5,8	KE49002002PK01BHL
20	30	45	42,5	37,5	20,3	1,2	30	14,8	5,6	KE49002004PK01BHL
22	33	45	42,5	37,5		1,2	30	11,3	5,4	KE49002202PK01BHL
22	33	45	42,5	37,5	20,3	1,2	30	15,8	5,2	KE49002204PK01BHL
30	30	45	57,5	52,5		1,2	20	11,3	6,4	KE49003002PK01BHL
30	30	45	57,5	52,5	20,3	1,2	20	15,6	6,2	KE49003004PK01BHL
40	35	50	57,5	52,5		1,2	20	11,3	5,2	KE49004002PK01BHL
40	35	50	57,5	52,5	20,3	1,2	20	18,7	5,0	KE49004004PK01BHL
55	42,5	56	57,5	52,5	20,3	1,2	20	22,6	3,9	KE49005504PK01BHL

**RATED
VOLTAGE
900VDC**

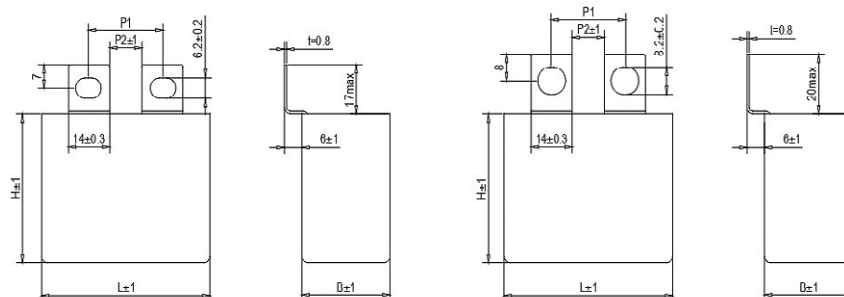
Cap μF	B	Dimensions (mm)					du/dt V/μs	Max@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
H	L	P	P1	d						
6,0	22	30	42,5	37,5		1,2	39	7,7	14,4	KE41116D02PK01BHL
10	28	37	42,5	37,5		1,2	39	10,8	9,2	KE41111002PK01BHL
10	28	37	42,5	37,5	10,2	1,2	39	10,9	9,0	KE41111004PK01BHL
14	30	45	42,5	37,5		1,2	39	11,3	7,0	KE41111402PK01BHL
14	30	45	42,5	37,5	20,3	1,2	39	13,4	6,8	KE41111404PK01BHL
15	33	45	42,5	37,5		1,2	39	11,3	6,6	KE41111502PK01BHL
15	33	45	42,5	37,5	20,3	1,2	39	14,2	6,4	KE41111504PK01BHL
22	30	45	57,5	52,5		1,2	26	11,3	7,3	KE41112202PK01BHL
22	30	45	57,5	52,5	20,3	1,2	26	14,6	7,1	KE41112204PK01BHL
25	35	50	57,5	52,5		1,2	26	11,3	6,6	KE41112502PK01BHL
25	35	50	57,5	52,5	20,3	1,2	26	16,4	6,4	KE41112504PK01BHL
40	42,5	56	57,5	52,5	20,3	1,2	26	21,4	4,4	KE41114004PK01BHL

**RATED
VOLTAGE
1100VDC**

KE5 TYPE -40°C +105°C 100000H

Applications	IGBT surge absorption
Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Solvent resistant plastic case. Flammability class UL94 V-0
Terminals	Brass lug terminals (lead-free)
Operating temperature range	-40 to +105°C
Capacitance	0.033 to 10μF
Rated Voltage	700 to 4500 VDC
Tolerance	±5%, ±10%
Dissipation factor	≤6×10 ⁻⁴ Measured at 1KHz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	Un≤1300V, 3KVAC (10s, 50Hz) Un>1300V, 1.5Un+1000VAC (10s, 50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)

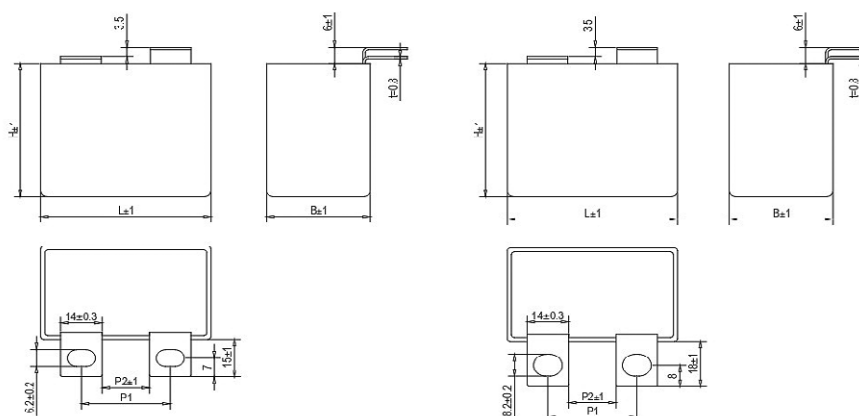
Lug style A



SIZE	LUG A1 M6		LUG A2 M6		LUG A3 M8		LUG A4 M8	
L	P2	P1	P2	P1	P2	P1	P2	P1
42,5	11	23 - 28	8	20 - 25	11	24 - 26	8	21 - 23
57,5	11	23 - 28	24	36 - 41	11	24 - 26	24	37 - 39

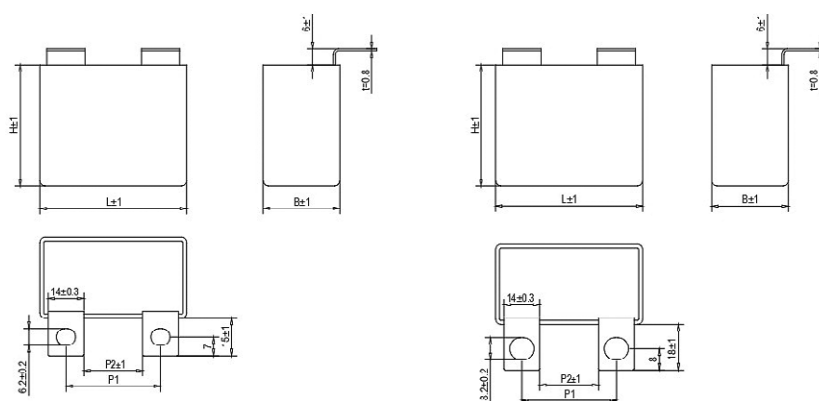
KE5 TYPE STANDARD RATINGS

Lug style B



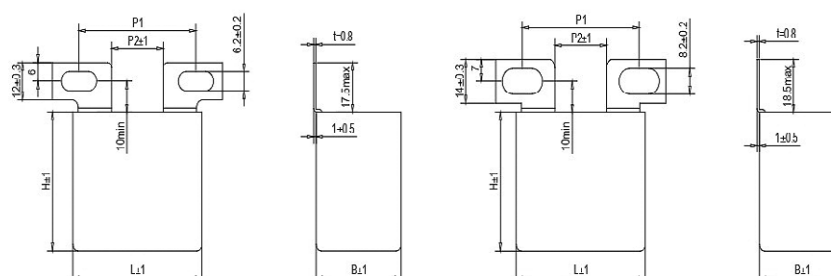
SIZE	LUG B1 M6		LUG B2 M6		LUG B3 M8		LUG B4 M8	
L	P2	P1	P2	P1	P2	P1	P2	P1
42,5	11	23 - 28	8	20 - 25	11	24 - 26	8	21 - 23
57,5	11	23 - 28	24	36 - 41	11	24 - 26	24	37 - 39

Lug style C



SIZE	LUG C1 M6		LUG C2 M6		LUG C3 M8		LUG C4 M8	
L	P2	P1	P2	P1	P2	P1	P2	P1
42,5	11	23 - 28	8	20 - 25	11	24 - 26	8	21 - 23
57,5	11	23 - 28	24	36 - 41	11	24 - 26	24	37 - 39

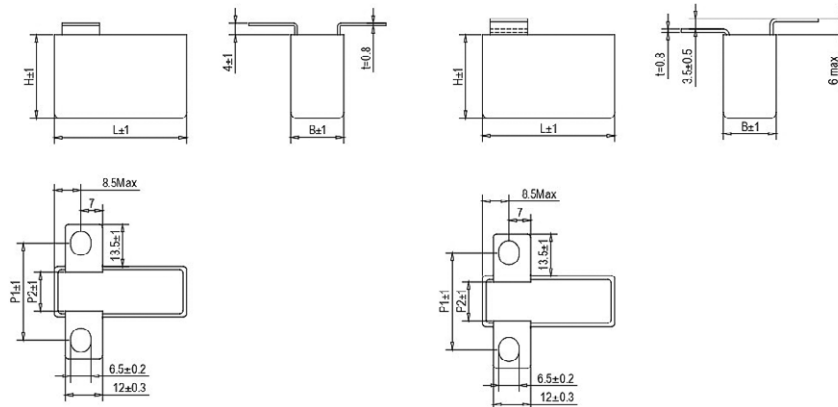
Lug style D



SIZE	LUG D1 M6		LUG D2 M6		LUG D3 M6		LUG D4 M8		LUG D5 M8		LUG D6 M8	
L	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1
42,5	11	29 - 41	15	33 - 45	-	-	8	33 - 42	15	40 - 49	-	-
57,5	11	29 - 41	15	33 - 45	28	46 - 58	15	40 - 49	24	49 - 58	28	53-62

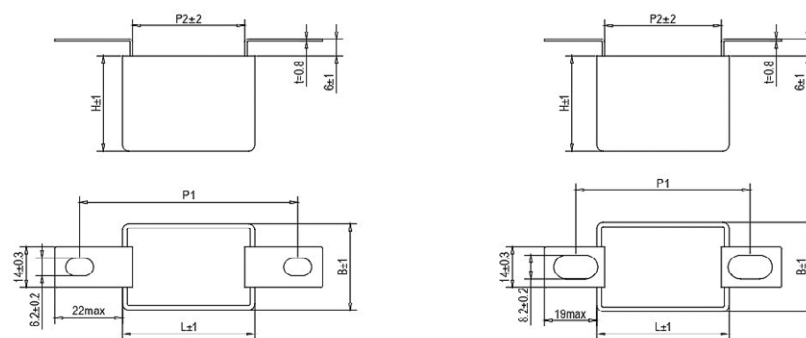
KE5 TYPE STANDARD RATINGS

Lug style E-F



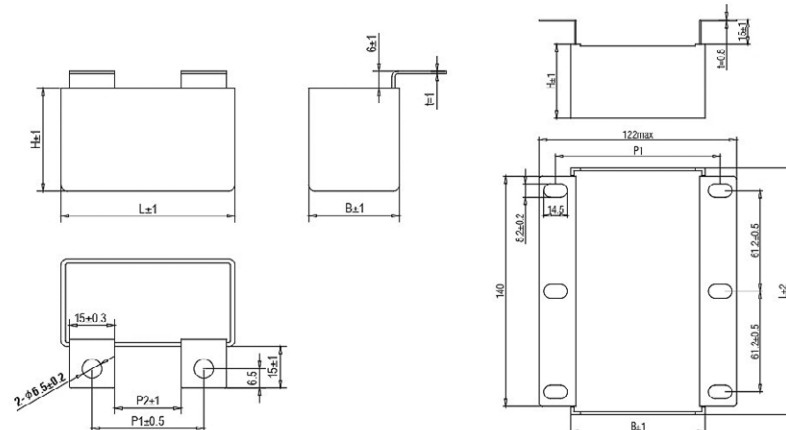
SIZE	LUG E1 M6		LUG F1 M6	
B	P2	P1	P2	P1
15	11	30	11	30
17	13	32	13	32

Lug style G



SIZE	LUG G1 M6		LUG G2 M8	
L	P2	P1	P2	P1
42,5	37	67-73	37	50-64
57,5	52	82-88	52	65-79

Lug style H



SIZE	LUG H1 M6		LUG H2 M6		LUG I1 M8	
L	P2	P1	P2	P1	P2	P1
42,5	8	23	-	-	-	-
57,5	13	28	22	37	-	-
150	-	-	-	-	76	94-107

KE5 TYPE STANDARD RATINGS

Cap μF	Dimensions (mm)			du/dt V/μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
1,0	17,0	28,0	42,5	325	325	≤25	12,9	4,3	KE57001D0_K01BHL
1,0	24,5	27,5	42,5	325	325	≤25	14,2	4,3	KE57001D0_K02BHL
1,2	24,5	27,5	42,5	325	390	≤25	15,2	3,1	KE57001D2_K01BHL
1,5	22,0	30,0	42,5	325	487	≤25	16,3	3,5	KE57001D5_K01BHL
2,0	28,0	37,0	42,5	325	650	≤25	20,1	3,2	KE57002D0_K01BHL
2,5	33,5	35,5	42,5	325	812	≤25	22,6	2,5	KE57002D5_K01BHL
3,0	33,0	45,0	42,5	325	975	≤25	24,9	2,4	KE57003D0_K01BHL
3,5	33,0	45,0	42,5	325	1134	≤25	26,0	2,0	KE57003D5_K01BHL
4,0	30,0	45,0	57,5	220	880	≤35	24,3	2,3	KE57004D0_K01BHL
4,7	35,0	50,0	57,5	220	1034	≤35	28,2	2,1	KE57004D7_K01BHL
5,0	30,0	45,0	57,5	220	1100	≤35	26,0	2,5	KE57005D0_K01BHL
5,6	35,0	50,0	57,5	220	1232	≤35	28,7	2,0	KE57005D6_K01BHL
6,8	35,0	50,0	57,5	220	1496	≤35	30,2	2,0	KE57006D8_K01BHL
10	42,5	56,0	57,5	220	2200	≤35	35,9	1,8	KE5700100_K01BHL

**RATED
VOLTAGE
700VDC**

Cap μF	Dimensions (mm)			du/dt V/μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
0,22	24,5	27,5	42,5	650	143	≤25	10,2	12,8	KE5121D22_K01BHL
0,22	15,0	26,0	42,5	650	143	≤25	8,1	12,8	KE5121D22_K02BHL
0,33	24,5	27,5	42,5	650	215	≤25	11,1	8,9	KE5121D33_K01BHL
0,33	15,0	26,0	42,5	650	215	≤25	9,2	8,9	KE5121D33_K02BHL
0,39	17,0	28,0	42,5	650	254	≤25	10,3	7,3	KE5121D39_K01BHL
0,47	24,5	27,5	42,5	650	306	≤25	12,3	7,0	KE5121D47_K01BHL
0,47	22,0	30,0	42,5	650	306	≤25	12,1	7,0	KE5121D47_K02BHL
0,56	22,0	30,0	42,5	650	364	≤25	12,9	5,3	KE5121D46_K01BHL
0,56	24,5	27,5	42,5	650	364	≤25	13,1	5,3	KE5121D46_K02BHL
0,68	33,5	35,5	42,5	650	442	≤25	16,5	4,6	KE5121D68_K01BHL
0,68	22,0	30,0	42,5	650	442	≤25	13,9	4,6	KE5121D68_K02BHL
0,82	33,5	35,5	42,5	650	533	≤25	17,6	3,9	KE5121D82_K01BHL
0,82	28,0	37,0	42,5	650	533	≤25	17,6	3,9	KE5121D82_K02BHL
1,0	33,5	35,5	42,5	650	650	≤25	18,9	3,4	KE51211D0_K01BHL
1,0	28,0	37,0	42,5	650	650	≤25	18,0	3,4	KE51211D0_K02BHL
1,2	33,0	45,0	42,5	650	780	≤25	21,2	3,1	KE51211D2_K01BHL
1,2	30,0	45,0	42,5	650	780	≤25	20,5	4,2	KE51211D2_K02BHL
1,5	33,0	45,0	42,5	650	975	≤25	22,8	4,1	KE51211D5_K01BHL
1,5	30,0	45,0	42,5	650	975	≤25	22,2	4,1	KE51211D5_K02BHL
2,0	30,0	45,0	57,5	455	910	≤35	22,0	3,6	KE51212D0_K01BHL
2,2	35,0	50,0	57,5	455	1001	≤35	24,3	3,5	KE51212D2_K01BHL
2,5	35,0	50,0	57,5	455	1138	≤35	25,4	3,2	KE51212D5_K01BHL
3,0	35,0	50,0	57,5	455	1365	≤35	27,0	3,1	KE51213D0_K01BHL
4,5	42,5	56,0	57,5	455	2047	≤35	32,8	3,0	KE51214D5_K01BHL

**RATED
VOLTAGE
1200VDC**

KE5 TYPE STANDARD RATINGS

Cap μF	Dimensions (mm)			du/dt V/ μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (m Ω)	PART NUMBER
0,22	24,5	27,5	42,5	880	194	≤ 25	10,0	10,2	KE5171D22_K01BHL
0,22	17,0	28,0	42,5	880	194	≤ 25	9,1	10,2	KE5171D22_K02BHL
0,33	22,0	30,0	42,5	880	290	≤ 25	11,9	7,9	KE5171D33_K02BHL
0,47	33,5	35,5	42,5	880	413	≤ 25	16,6	5,6	KE5171D47_K01BHL
0,47	28,0	37,0	42,5	880	413	≤ 25	15,2	5,6	KE5171D47_K02BHL
0,56	28,0	37,0	42,5	880	492	≤ 25	16,3	5,5	KE5171D56_K01BHL
0,68	33,5	35,5	42,5	880	598	≤ 25	18,0	5,4	KE5171D68_K01BHL
0,82	33,0	45,0	42,5	880	721	≤ 25	20,8	5,4	KE5171D82_K01BHL
0,82	30,0	45,0	42,5	880	721	≤ 25	19,9	5,4	KE5171D82_K02BHL
1,0	30,0	45,0	57,5	610	610	≤ 35	19,6	5,3	KE51711D0_K01BHL
1,2	30,0	45,0	57,5	610	732	≤ 35	20,7	4,5	KE51711D2_K01BHL
1,5	35,0	50,0	57,5	610	915	≤ 35	24,3	3,7	KE51711D5_K01BHL
2,2	42,5	56	57,5	610	1342	≤ 35	29,4	3,5	KE51712D2_K01BHL

**RATED
VOLTAGE
1700VDC**

Cap μF	Dimensions (mm)			du/dt V/ μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (m Ω)	PART NUMBER
0,10	15,0	26,0	42,5	1000	100	≤ 25	6,5	25,7	KE5201D10_K01BHL
0,15	17,0	28,0	42,5	1000	150	≤ 25	8,1	14,7	KE5201D15_K01BHL
0,22	22,0	30,0	42,5	1000	220	≤ 25	10,5	10,5	KE5201D22_K01BHL
0,33	33,5	35,5	42,5	1000	330	≤ 25	15,0	9,5	KE5201D33_K01BHL
0,33	28,0	37,0	42,5	1000	330	≤ 25	13,8	9,5	KE5201D33_K02BHL
0,47	28,0	37,0	42,5	1000	470	≤ 25	16,0	5,2	KE5201D47_K01BHL
0,56	33,0	45,0	42,5	1000	560	≤ 25	18,7	4,3	KE5201D56_K01BHL
0,68	30,0	45,0	57,5	700	476	≤ 35	17,5	5,7	KE5201D68_K01BHL
0,82	30,0	45,0	57,5	700	574	≤ 35	19,0	4,5	KE5201D82_K01BHL
1,0	35,0	50,0	57,5	700	700	≤ 35	21,9	4,5	KE52011D0_K01BHL
1,2	35,0	50,0	57,5	700	840	≤ 35	23,2	4,2	KE52011D2_K01BHL
1,8	42,5	56,0	57,5	700	1260	≤ 35	28,3	4,0	KE52011D8_K01BHL

**RATED
VOLTAGE
2000VDC**

KE5 TYPE STANDARD RATINGS

Cap μF	Dimensions (mm)			du/dt V/μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
0,047	24,5	27,5	42,5	1600	75	≤25	6,1	31,6	KE5301N47_K01BHL
0,068	24,5	27,5	42,5	1600	108	≤25	7,2	22,7	KE5301N68_K01BHL
0,10	33,5	35,5	42,5	1600	160	≤25	9,9	15,0	KE5301D10_K01BHL
0,10	22,0	30,0	42,5	1600	160	≤25	8,5	15,0	KE5301D01_K02BHL
0,15	28,0	37,0	42,5	1600	240	≤25	11,3	10,8	KE5301D15_K01BHL
0,22	33,0	45,0	42,5	1600	352	≤25	16,6	6,6	KE5301D22_K01BHL
0,33	30,0	45,0	57,5	870	287	≤35	17,4	7,5	KE5301D33_K01BHL
0,47	35,0	50,0	57,5	870	408	≤35	21,4	7,5	KE5301D47_K01BHL
0,56	35,0	50,0	57,5	870	487	≤35	22,4	7,4	KE5301D56_K01BHL
0,82	42,5	56,0	57,5	870	713	≤35	27,8	7,0	KE5301D82_K01BHL

**RATED
VOLTAGE
3000VDC**

Cap μF	Dimensions (mm)			du/dt V/μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
0,047	24,5	27,5	42,5	3500	165	20	7,2	16,7	KE5401N47_K01BHL
0,10	33,5	35,5	42,5	3500	350	20	11,8	8,3	KE5401D10_K01BHL
0,10	28	37	42,5	3500	350	20	11,3	8,3	KE5401D10_K02BHL
0,15	33	45	42,5	3500	525	20	14,8	5,9	KE5401D15_K01BHL
0,22	30	45	57,5	2000	440	35	15,6	6,2	KE5401D22_K01BHL
0,33	35	50	57,5	2000	660	35	19,8	4,4	KE5401D33_K01BHL
0,47	42,5	56	57,5	2000	940	35	24,5	3,4	KE5401D47_K01BHL

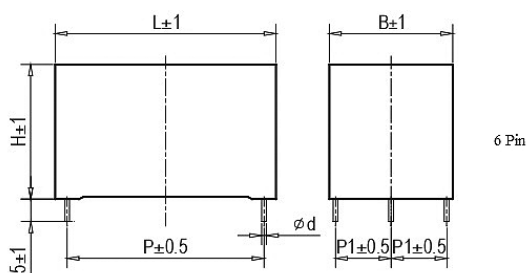
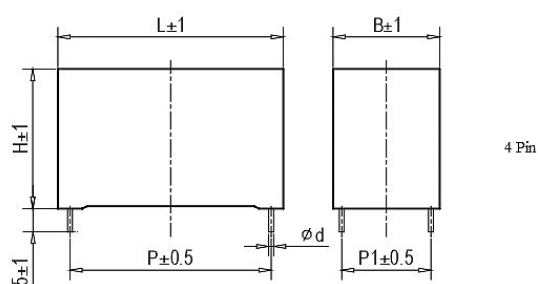
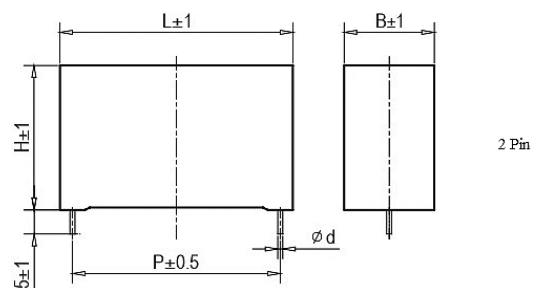
**RATED
VOLTAGE
4000VDC**

Cap μF	Dimensions (mm)			du/dt V/μs	I _{peak} (A)	L _s (nH)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
0,033	24,5	27,5	42,5	4000	132	20	6,3	21,8	KE5451N33_K01BHL
0,068	33,5	35,5	42,5	4000	272	20	10,3	11,0	KE5451N68_K01BHL
0,10	33	45	42,5	4000	400	20	12,8	7,8	KE5451D10_K01BHL
0,15	30	45	57,5	2400	360	35	13,9	7,8	KE5451D15_K01BHL
0,22	35	50	57,5	2400	528	35	17,5	5,6	KE5451D22_K01BHL
0,35	42,5	56	57,5	2400	840	35	22,9	3,9	KE5451D35_K01BHL
1,0	82	45	150	950	950	50	38,6	2,0	KE5451D0_K01BHL
1,5	82	45	150	950	1425	50	40,9	1,7	KE5451D5_K01BHL

**RATED
VOLTAGE
4500VDC**

KE6 TYPE -40°C +105°C 100000H

Applications	IGBT surge absorption, High frequency resonance
Reference Standard	IEC 61071
Dielectric	Polypropylene film
Construction	Dry construction, Non-inductive type
Coating	Solvent resistant plastic case. Flammability class UL94 V-0
Terminals	Tinned red copper wire (lead-free). 2, 4 or 6 terminals
Operating temperature range	-40 to +105°C
Capacitance	0.0047 to 5.6μF
Rated Voltage	700 to 3000 VDC
Tolerance	±5%, ±10%
Dissipation factor	≤6×10 ⁻⁴ Measured at 1KHz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	Un≤1300V, 3KVAC (10s, 50Hz) Un>1300V, 1.5Un+1000VAC (10s, 50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)



KE6 TYPE STANDARD RATINGS

**RATED
VOLTAGE
700VDC**

Cap μF	Dimensions (mm)					du/dt V/μs	Ipeak (A)	Max@60°C @100KHz	ESR @100KHz (mΩ)	PART NUMBER	
B	H	L	P	P1	d						
0,10	8,5	17,0	26,5	22,5		0,8	600	60	5,0	21,3	KE6700D102PK01BHL
0,15	10,0	18,5	26,5	22,5		0,8	600	90	5,0	16,3	KE6700D15SPK01BHL
0,22	11,0	20,0	26,5	22,5		0,8	600	132	5,0	11,5	KE6700D222PK01BHL
0,22	11,0	20,0	31,0	27,5		1,0	485	107	7,9	15,2	KE6700D222PK02BH
0,33	13,0	22,0	31,0	27,5		1,0	485	160	7,9	11,2	KE6700D332PK01BHL
0,47	15,0	24,5	31,0	27,5		1,0	485	228	7,9	6,9	KE6700D472PK01BHL
0,68	17,0	28,0	31,0	27,5		1,2	485	330	11,3	5,5	KE6700D682PK01BHL
0,68	17,0	28,0	31,0	27,5	5,1	1,2	485	330	16,4	4,6	KE6700D68DPK01BHL
0,82	17,0	28,0	31,0	27,5	10,2	1,2	485	398	17,5	4,8	KE6700D824PK01BHL
0,82	15,0	26,0	42,5	37,5		1,2	325	267	11,3	5,1	KE6700D822PK01BHL
1,0	22,0	31,0	31,0	27,5		1,2	485	485	11,3	4,8	KE67001D02PK01BHL
1,0	22,0	31,0	31,0	27,5	10,2	1,2	485	485	20,6	3,9	KE67001D04PK01BHL
1,0	17,0	28,0	42,5	37,5		1,2	325	325	11,3	4,9	KE67001D02PK02BHL
1,5	22,0	30,0	42,5	37,5		1,2	325	488	11,3	4,8	KE67001D52PK01BHL
1,5	22,0	30,0	42,5	37,5	10,2	1,2	325	488	21,0	5,2	KE67001D54PK01BHL
2,0	28,0	37,0	42,5	37,5		1,2	325	650	11,3	4,5	KE67002D02PK01BHL
2,0	28,0	37,0	42,5	37,5	10,2	1,2	325	650	22,6	4,3	KE67002D04PK01BHL
2,2	28,0	37,0	42,5	37,5		1,2	325	715	11,3	4,2	KE67002D22PK01BHL
2,2	28,0	37,0	42,5	37,5	20,3	1,2	325	715	22,6	3,8	KE67002D24PK01BHL
3,0	30,0	45,0	42,5	37,5		1,2	325	975	11,3	3,9	KE67003D02PK01BHL
3,0	30,0	45,0	42,5	37,5	20,3	1,2	325	975	22,6	3,6	KE67003D04PK01BHL
3,0	30,0	45,0	42,5	37,5	10,2	1,2	325	975	31,3	3,5	KE67003D06PK01BHL
3,3	30,0	45,0	42,5	37,5		1,2	325	1073	11,3	3,8	KE67003D32PK01BHL
3,3	30,0	45,0	42,5	37,5	20,3	1,2	325	1073	22,6	3,6	KE67003D34PK01BHL
3,3	30,0	45,0	42,5	37,5	10,2	1,2	325	1073	32,1	3,2	KE67003D36PK01BHL
4,0	33,0	45,0	42,5	37,5		1,2	325	1300	11,3	3,2	KE67004D02PK01BHL
4,0	33,0	45,0	42,5	37,5	20,3	1,2	325	1300	22,6	3,1	KE67004D04PK01BHL
4,0	33,0	45,0	42,5	37,5	10,2	1,2	325	1300	33,9	3,0	KE67004D06PK01BHL
4,0	30,0	45,0	57,5	52,5		1,2	200	800	11,3	4,5	KE67004D02PK02BHL
4,0	30,0	45,0	57,5	52,5	20,3	1,2	200	800	22,6	3,6	KE67004D04PK02BHL
4,0	30,0	45,0	57,5	52,5	10,2	1,2	200	800	31,3	3,6	KE67004D06PK02BHL
4,7	30,0	45,0	57,5	52,5		1,2	200	940	11,3	4,5	KE67004D72PK01BHL
4,7	30,0	45,0	57,5	52,5	20,3	1,2	200	940	22,6	4,2	KE67004D74PK01BHL
4,7	30,0	45,0	57,5	52,5	10,2	1,2	200	940	32,9	3,9	KE67004D76PK01BHL
5,0	30,0	45,0	57,5	52,5		1,2	200	1000	11,3	4,4	KE67005D02PK01BHL
5,0	30,0	45,0	57,5	52,5	20,3	1,2	200	1000	22,6	4,1	KE67005D04PK01BHL
5,0	30,0	45,0	57,5	52,5	10,2	1,2	200	1000	33,5	4,1	KE67005D06PK01BHL
5,6	35,0	50,0	57,5	52,5		1,2	200	1120	11,3	4,1	KE67005D62PK01BHL
5,6	35,0	50,0	57,5	52,5	20,3	1,2	200	1120	22,6	3,8	KE67005D64PK01BHL
5,6	35,0	50,0	57,5	52,5	10,2	1,2	200	1120	33,9	3,6	KE67005D66PK01BHL

KE6 TYPE STANDARD RATINGS

Cap	Dimensions (mm)					du/dt	Ipeak	Max@60°C	ESR		PART NUMBER
μF	B	H	L	P	P1	d	V/μs	(A)	@100KHz	@100KHz (mΩ)	
0,068	8,5	17,0	26,5	22,5		0,8	850	58	5,0	21,5	KE6850N682PK01BHL
0,10	10,0	18,5	26,5	22,5		0,8	850	85	5,0	18,7	KE6850D102PK01BHL
0,15	11,0	20,0	26,5	22,5		0,8	850	128	5,0	11,2	KE6850D152PK01BHL
0,15	11,0	20,0	31,0	27,5		0,8	700	105	5,0	12,9	KE6850D152PK02BHL
0,22	13,0	22,0	31,0	27,5		1,0	700	154	7,9	9,6	KE6850D222PK01BHL
0,33	15,0	24,5	31,0	27,5		1,0	700	231	7,9	7,5	KE6850D332PK01BHL
0,47	18,0	33,0	31,0	27,5		1,2	700	329	11,3	5,9	KE6850D472PK01BHL
0,47	18,0	33,0	31,0	27,5	10,2	1,2	700	329	16,1	5,1	KE6850D474PK01BHL
0,56	18,0	33,0	31,0	27,5		1,2	700	392	11,3	4,7	KE6850D562PK01BHL
0,56	18,0	33,0	31,0	27,5	10,2	1,2	700	392	17,1	5,6	KE6850D564PK01BHL
0,56	15,0	26,0	42,5	37,5		1,2	400	224	11,3	5,7	KE6850D562PK02BHL

**RATED
VOLTAGE
850VDC**

Cap μF	Dimensions (mm)					du/dt V/μs	Ipeak (A)	Max@60°C @100KHz	ESR @100KHz (mΩ)	PART NUMBER	
B	H	L	P	P1	d						
0,68	22,0	31,0	31,0	27,5		1,2	700	476	11,3	5,1	KE6850D682PK01BHL
0,68	22,0	31,0	31,0	27,5	10,2	1,2	700	476	19,1	4,2	KE6850D684PK01BHL
0,68	17,0	28,0	42,5	37,5		1,2	400	272	11,3	5,4	KE6850D682PK02BHL
1,0	22,0	30,0	42,5	37,5		1,2	400	400	11,3	5,1	KE6850D02PK01BHL
1,0	22,0	30,0	42,5	37,5	10,2	1,2	400	400	19,4	4,1	KE6850D04PK01BHL
1,5	28,0	37,0	42,5	37,5		1,2	400	600	11,3	4,2	KE6850D52PK01BHL
1,5	28,0	37,0	42,5	37,5	20,3	1,2	400	600	22,6	3,4	KE6850D54PK01BHL
2,0	30,0	45,0	42,5	37,5		1,2	400	800	11,3	3,8	KE6850D02PK01BHL
2,0	30,0	45,0	42,5	37,5	20,3	1,2	400	800	22,6	3,2	KE6850D04PK01BHL
2,0	30,0	45,0	42,5	37,5	10,2	1,2	400	800	30,0	3,2	KE6850D06PK01BHL
2,2	30,0	45,0	42,5	37,5		1,2	400	880	11,3	3,8	KE6850D22PK01BHL
2,2	30,0	45,0	42,5	37,5	20,3	1,2	400	880	22,6	3,2	KE6850D24PK01BHL
2,2	30,0	45,0	42,5	37,5	10,2	1,2	400	880	30,1	3,2	KE6850D26PK01BHL
2,5	30,0	45,0	57,5	52,5		1,2	275	688	11,3	4,5	KE6850D52PK01BHL
2,5	30,0	45,0	57,5	52,5	20,3	1,2	275	688	22,6	3,5	KE6850D54PK01BHL
2,5	30,0	45,0	57,5	52,5	10,2	1,2	275	688	30,1	3,5	KE6850D56PK01BHL
3,0	30,0	45,0	57,5	52,5		1,2	275	825	11,3	4,1	KE6850D02PK01BHL
3,0	30,0	45,0	57,5	52,5	20,3	1,2	275	825	22,6	3,2	KE6850D04PK01BHL
3,0	30,0	45,0	57,5	52,5	10,2	1,2	275	825	30,4	3,2	KE6850D06PK01BHL
3,3	30,0	45,0	57,5	52,5		1,2	275	908	11,3	4,1	KE6850D32PK01BHL
3,3	30,0	45,0	57,5	52,5	20,3	1,2	275	908	22,6	3,2	KE6850D34PK01BHL
3,3	30,0	45,0	57,5	52,5	10,2	1,2	275	908	31,3	3,2	KE6850D36PK01BHL
4,0	35,0	50,0	57,5	52,5		1,2	275	1100	11,3	3,8	KE6850D02PK01BHL
4,0	35,0	50,0	57,5	52,5	20,3	1,2	275	1100	22,6	3,0	KE6850D04PK01BHL
4,0	35,0	50,0	57,5	52,5	10,2	1,2	275	1100	33,9	2,8	KE6850D06PK01BHL
4,7	35,0	50,0	57,5	52,5		1,2	275	1293	11,3	3,5	KE6850D72PK01BHL
4,7	35,0	50,0	57,5	52,5	20,3	1,2	275	1293	22,6	2,7	KE6850D74PK01BHL
4,7	35,0	50,0	57,5	52,5	10,2	1,2	275	1293	33,9	2,5	KE6850D76PK01BHL

**RATED
VOLTAGE
850VDC**

KE6 TYPE STANDARD RATINGS

Cap. μF	Dimensions (mm)						du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d						
0,033	7,0	16,0	26,5	22,5		0,8	1300	43	4,0	33,8	KE6121N332PK01BHL
0,047	8,5	17,0	26,5	22,5		0,8	1300	61	5,0	26,5	KE6121N472PK01BHL
0,068	10,0	18,5	26,5	22,5		0,8	1300	88	5,0	22,4	KE6121N682PK01BHL
0,068	9,0	18,0	31,0	27,5		0,8	1100	75	5,0	21,5	KE6121N682PK02BHL
0,10	12,0	22,0	26,5	22,5		0,8	1300	130	5,0	14,6	KE6121D102PK01BHL
0,10	11,0	20,0	31,0	27,5		0,8	1100	110	5,0	15,8	KE6121D102PK02BHL
0,15	13,0	22,0	31,0	27,5		1,0	1100	165	7,9	12,5	KE6121D152PK01BHL
0,22	15,0	24,5	31,0	27,5		1,0	1100	242	7,9	12,5	KE6121D222PK01BHL
0,33	18,0	33,0	31,0	27,5		1,2	1100	363	11,3	6,5	KE6121D332PK01BHL
0,33	18,0	33,0	31,0	27,5	10,2	1,2	1100	363	15,2	5,6	KE6121D334PK01BHL
0,33	15,0	26,0	42,5	37,5		1,2	650	215	11,3	8,3	KE6121D332PK02BHL
0,47	22,0	31,0	31,0	27,5		1,2	1100	517	11,3	5,1	KE6121D472PK01BHL
0,47	22,0	31,0	31,0	27,5	10,2	1,2	1100	517	17,8	4,2	KE6121D474PK01BHL
0,47	17,0	28,0	42,5	37,5		1,2	650	306	11,3	7,2	KE6121D472PK02BHL
0,68	22,0	30,0	42,5	37,5		1,2	650	442	11,3	5,9	KE6121D682PK01BHL
0,68	22,0	30,0	42,5	37,5	10,2	1,2	650	442	18,1	5,2	KE6121D684PK01BHL
1,0	28,0	37,0	42,5	37,5		1,2	650	650	11,3	5,2	KE61211D02PK01BHL
1,0	28,0	37,0	42,5	37,5	20,3	1,2	650	650	22,6	4,3	KE61211D04PK01BHL
1,2	28,0	37,0	42,5	37,5		1,2	650	780	11,3	5,1	KE61211D22PK01BHL
1,2	28,0	37,0	42,5	37,5	20,3	1,2	650	780	22,6	3,8	KE61211D24PK01BHL
1,5	30,0	45,0	42,5	37,5		1,2	650	975	11,3	4,2	KE61211D52PK01BHL
1,5	30,0	45,0	42,5	37,5	20,3	1,2	650	975	22,6	3,2	KE61211D54PK01BHL
1,5	30,0	45,0	42,5	37,5	10,2	1,2	650	975	28,6	3,2	KE61211D56PK01BHL

**RATED
VOLTAGE
1200VDC**

Cap. μF	Dimensions (mm)						du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d						
2,0	30,0	45,0	57,5	52,5		1,2	350,0	700	11,3	4,5	KE61212D02PK01BHL
2,0	30,0	45,0	57,5	52,5	20,3	1,2	350,0	700	22,6	3,6	KE61212D04PK01BHL
2,0	30,0	45,0	57,5	52,5	10,2	1,2	350,0	700	29,2	3,6	KE61212D06PK01BHL
2,2	30,0	45,0	57,5	52,5		1,2	350,0	770	11,3	4,5	KE61212D22PK01BHL
2,2	30,0	45,0	57,5	52,5	20,3	1,2	350,0	770	22,6	3,5	KE61212D24PK01BHL
2,2	30,0	45,0	57,5	52,5	10,2	1,2	350,0	770	29,6	3,5	KE61212D26PK01BHL
2,5	35,0	50,0	57,5	52,5		1,2	350,0	875	11,3	4,1	KE61212D52PK01BHL
2,5	35,0	50,0	57,5	52,5	20,3	1,2	350,0	875	22,6	3,2	KE61212D54PK01BHL
2,5	35,0	50,0	57,5	52,5	10,2	1,2	350,0	875	33,6	3,2	KE61212D56PK01BHL
3,0	35,0	50,0	57,5	52,5		1,2	350,0	1050	11,3	3,5	KE61213D02PK01BHL
3,0	35,0	50,0	57,5	52,5	20,3	1,2	350,0	1050	22,6	3,2	KE61213D04PK01BHL
3,0	35,0	50,0	57,5	52,5	10,2	1,2	350,0	1050	33,9	3,2	KE61213D06PK01BHL

**RATED
VOLTAGE
1200VDC**

KE6 TYPE STANDARD RATINGS

Cap μF	Dimensions (mm)					du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d					
0,022	7,0	16,0	26,5	22,5	0,8	1500	33	3,4	44,5	KE6151N222PK01BHL
0,033	8,5	17,0	26,5	22,5	0,8	1500	50	4,3	33,0	KE6151N332PK01BHL
0,047	10,0	18,5	26,5	22,5	0,8	1500	71	5,0	24,8	KE6151N472PK01BHL
0,047	9,0	18,0	31,0	27,5	0,8	1225	58	5,0	27,3	KE6151N472PK02BHL
0,068	12,0	22,0	26,5	22,5	0,8	1500	102	5,0	19,5	KE6151N682PK01BHL
0,068	11,0	20,0	31,0	27,5	0,8	1225	83	5,0	20,7	KE6151N682PK02BHL
0,10	13,0	22,0	31,0	27,5	0,8	1225	123	5,0	15,3	KE6151D102PK01BHL
0,15	17,0	28,0	31,0	27,5	1,0	1225	184	7,9	10,6	KE6151D152PK01BHL
0,22	18,0	33,0	31,0	27,5	1,2	1225	270	11,3	7,6	KE6151D222PK01BHL
0,22	17,0	28,0	42,5	37,5	1,2	800	176	11,3	10,2	KE6151D222PK02BHL
0,33	22,0	30,0	42,5	37,5	1,2	800	264	11,3	6,2	KE6151D332PK01BHL
0,33	22,0	30,0	42,5	37,5	10,2	1,2	800	15,2	5,1	KE6151D334PK01BHL
0,39	22,0	30,0	42,5	37,5	1,2	800	312	11,3	6,2	KE6151D392PK01BHL
0,39	22,0	30,0	42,5	37,5	10,2	1,2	800	16,3	4,6	KE6151D394PK01BHL
0,47	28,0	37,0	42,5	37,5	1,2	800	376	11,3	6,6	KE6151D472PK01BHL
0,47	28,0	37,0	42,5	37,5	10,2	1,2	800	20,7	5,7	KE6151D474PK01BHL
0,68	28,0	37,0	42,5	37,5	1,2	800	544	11,3	5,7	KE6151D682PK01BHL
0,68	28,0	37,0	42,5	37,5	10,2	1,2	800	22,2	4,8	KE6151D684PK01BHL
1,0	30,0	45,0	42,5	37,5	1,2	800	800	11,3	4,8	KE6151D02PK01BHL
1,0	30,0	45,0	42,5	37,5	20,3	1,2	800	22,6	3,9	KE6151D04PK01BHL
1,2	30,0	45,0	57,5	52,5	1,2	500	600	11,3	5,3	KE6151D22PK01BHL
1,2	30,0	45,0	57,5	52,5	20,3	1,2	500	22,6	4,5	KE6151D24PK01BHL
1,2	30,0	45,0	57,5	52,5	10,2	1,2	500	26,7	4,5	KE6151D26PK01BHL
1,5	35,0	50,0	57,5	52,5	1,2	500	750	11,3	4,8	KE6151D52PK01BHL
1,5	35,0	50,0	57,5	52,5	20,3	1,2	500	22,6	4,1	KE6151D54PK01BHL
1,5	35,0	50,0	57,5	52,5	10,2	1,2	500	30,9	4,1	KE6151D56PK01BHL
1,8	35,0	50,0	57,5	52,5	1,2	500	900	11,3	4,5	KE6151D82PK01BHL
1,8	35,0	50,0	57,5	52,5	20,3	1,2	500	22,6	3,6	KE6151D84PK01BHL
1,8	35,0	50,0	57,5	52,5	10,2	1,2	500	32,3	3,6	KE6151D86PK01BHL

**RATED
VOLTAGE
1500VDC**

Cap μF	Dimensions (mm)					du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d					
0,015	7,0	16,0	26,5	22,5	0,8	2150	32	3,0	56,2	KE6201N152PK01BHL
0,022	8,5	17,0	26,5	22,5	0,8	2150	47	3,8	40,5	KE6201N222PK01BHL
0,033	11,0	20,0	26,5	22,5	0,8	2150	71	5,0	31,5	KE6201N332PK01BHL
0,033	11,0	20,0	31,0	27,5	0,8	1750	58	4,9	35,5	KE6201N222PK02BHL
0,047	12,0	22,0	26,5	22,5	0,8	2150	101	5,0	22,5	KE6201N472PK01BHL
0,047	11,0	20,0	31,0	27,5	0,8	1750	82	5,0	25,2	KE6201N472PK02BHL
0,068	13,0	22,0	31,0	27,5	0,8	1750	119	5,0	18,2	KE6201N682PK01BHL

**RATED
VOLTAGE
2000VDC**

KE6 TYPE STANDARD RATINGS

**RATED
VOLTAGE
2000VDC**

Cap. μF	Dimensions (mm)						du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d						
0,10	17,0	28,0	31,0	27,5		1,0	1750	175	7,9	15,7	KE6201D102PK01BHL
0,15	18,0	33,0	31,0	27,5		1,2	1750	263	11,3	12,5	KE6201D152PK01BHL
0,15	18,0	33,0	31,0	27,5	10,2	1,2	1750	263	12,4	10,5	KE6201D154PK01BHL
0,15	15,0	26,0	42,5	37,5		1,2	1000	150	10,1	15,8	KE6201D152PK02BHL
0,22	22,0	30,0	42,5	37,5		1,2	1000	220	11,3	7,8	KE6201D222PK01BHL
0,33	28,0	37,0	42,5	37,5		1,2	1000	330	11,3	7,2	KE6201D332PK01BHL
0,33	28,0	37,0	42,5	37,5	10,2	1,2	1000	330	18,0	4,6	KE6201D334PK01BHL
0,39	28,0	37,0	42,5	37,5		1,2	1000	390	11,3	7,1	KE6201D392PK01BHL
0,39	28,0	37,0	42,5	37,5	20,3	1,2	1000	390	19,2	4,5	KE6201D394PK01BHL
0,47	28,0	37,0	42,5	37,5		1,2	1000	470	11,3	6,2	KE6201D472PK01BHL
0,47	28,0	37,0	42,5	37,5	20,3	1,2	1000	470	20,7	5,1	KE6201D474PK01BHL
0,56	30,0	45,0	42,5	37,5		1,2	1000	560	11,3	5,6	KE6201D562PK01BHL
0,56	30,0	45,0	42,5	37,5	20,3	1,2	1000	560	22,6	4,6	KE6201D564PK01BHL
0,56	33,0	45,0	42,5	37,5	10,2	1,2	1000	560	24,9	4,6	KE6201D566PK01BHL
0,68	33,0	45,0	42,5	37,5		1,2	1000	680	11,3	5,6	KE6201D682PK01BHL
0,68	33,0	45,0	42,5	37,5	20,3	1,2	1000	680	22,6	4,6	KE6201D684PK01BHL
0,68	33,0	45,0	42,5	37,5	10,2	1,2	1000	680	26,0	4,5	KE6201D686PK01BHL
0,68	30,0	45,0	57,5	52,5		1,2	580	394	11,3	6,5	KE6201D682PK02BHL
0,68	30,0	45,0	57,5	52,5	20,3	1,2	580	394	22,6	5,4	KE6201D684PK02BHL
0,68	30,0	45,0	57,5	52,5	10,2	1,2	580	394	23,4	5,4	KE6201D686PK02BHL
0,82	30,0	45,0	57,5	52,5		1,2	580	476	11,3	5,9	KE6201D822PK01BHL
0,82	30,0	45,0	57,5	52,5	20,3	1,2	580	476	22,6	4,8	KE6201D684PK01BHL
0,82	30,0	45,0	57,5	52,5	10,2	1,2	580	476	24,6	4,6	KE6201D826PK01BHL
1	35,0	50,0	57,5	52,5		1,2	580	580	11,3	5,4	KE62011D04PK01BHL
1	35,0	50,0	57,5	52,5	20,3	1,2	580	580	22,6	4,5	KE62011D04PK01BHL
1	35,0	50,0	57,5	52,5	10,2	1,2	580	580	28,6	4,5	KE62011D06PK01BHL
1,2	35,0	50,0	57,5	52,5		1,2	580	696	11,3	4,8	KE62011D22PK01BHL
1,2	35,0	50,0	57,5	52,5	20,3	1,2	580	696	22,6	3,7	KE62011D24PK01BHL
1,2	35,0	50,0	57,5	52,5	10,2	1,2	580	696	30,2	3,7	KE62011D26PK01BHL

KE6 TYPE STANDARD RATINGS

Cap μF	Dimensions (mm)						du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d						
0,0068	7,0	16,0	26,5	22,5		0,8	2650	18	2,2	102	KE6251N682PK01BHL
0,01	8,5	17,0	26,5	22,5		0,8	2650	27	2,8	76,5	KE6251N102PK01BHL
0,015	10,0	18,5	26,5	22,5		0,8	2650	40	3,6	54,0	KE6251N152PK01BHL
0,022	12,0	22,0	26,5	22,5		0,8	2650	58	4,6	39,8	KE6251N222PK01BHL
0,022	11,0	20,0	31,0	27,5		0,8	2150	47	4,3	45,7	KE6251N222PK02BHL
0,033	11,0	20,0	31,0	27,5		0,8	2150	71	5,0	33,8	KE6251N332PK01BHL
0,047	13,0	22,0	31,0	27,5		0,8	2150	101	5,0	25,0	KE6251N472PK01BHL
0,068	17,0	28,0	31,0	27,5		1,00	2150	146	7,9	17,3	KE6251N682PK02BHL
0,1	18,0	33,0	31,0	27,5		1,2	2150	215	10,8	11,5	KE6251D102PK01BHL
0,1	18,0	33,0	31,0	27,5	10,2	1,2	2150	215	10,8	11,5	KE6251D104PK01BHL
0,1	15,0	26,0	42,5	37,5		1,2	1350	135	8,9	17,5	KE6251D102PK02BHL
0,15	22,0	30,0	42,5	37,5		1,2	1350	203	11,3	11,5	KE6251D152PK01BHL
0,15	22,0	30,0	42,5	37,5	10,2	1,2	1350	203	12,2	9,8	KE6251D154PK01BHL
0,22	28,0	37,0	42,5	37,5		1,2	1350	297	11,3	8,7	KE6251D222PK01BHL
0,22	28,0	37,0	42,5	37,5	10,2	1,2	1350	297	17,1	7,8	KE6251D224PK01BHL
0,33	28,0	37,0	42,5	37,5		1,2	1350	446	11,3	6,5	KE6251D332PK01BHL
0,33	28,0	37,0	42,5	37,5	20,3	1,2	1350	446	19,0	5,9	KE6251D334PK01BHL
0,39	30,0	45,0	42,5	37,5		1,2	1350	527	11,3	5,8	KE6251D392PK01BHL
0,39	30,0	45,0	42,5	37,5	20,3	1,2	1350	527	21,7	5,6	KE6251D394PK01BHL
0,39	33,0	45,0	42,5	37,5	10,2	1,2	1350	527	22,8	5,6	KE6251D396PK01BHL
0,47	33,0	45,0	42,5	37,5	10,2	1,2	1350	635	23,9	5,3	KE6251D476PK01BHL
0,47	30,0	45,0	57,5	52,5		1,2	750	353	11,3	6,5	KE6251D474PK01BHL
0,47	30,0	45,0	57,5	52,5	20,3	1,2	750	353	22,6	5,8	KE6251D474PK01BHL

**RATED
VOLTAGE
2500VDC**

Cap μF	Dimensions (mm)						du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz	ESR @100KHz (mΩ)	PART NUMBER
B	H	L	P	P1	d						
0,56	30,0	45,0	57,5	52,5		1,2	750	420	11,3	6,5	KE6251D562PK01BHL
0,56	30,0	45,0	57,5	52,5	20,3	1,2	750	420	22,6	5,4	KE6251D564PK01BHL
0,56	30,0	45,0	57,5	52,5	10,2	1,2	750	420	26,6	5,4	KE6251D566PK01BHL
0,68	35,0	50,0	57,5	52,5		1,2	750	510	11,3	6,2	KE6251D682PK01BHL
0,68	35,0	50,0	57,5	52,5	20,3	1,2	750	510	22,6	5,1	KE6251D684PK01BHL
0,68	35,0	50,0	57,5	52,5	10,2	1,2	750	510	30,5	5,1	KE6251D686PK01BHL
0,82	35,0	50,0	57,5	52,5		1,2	750	615	11,3	5,6	KE6251D822PK01BHL
0,82	35,0	50,0	57,5	52,5	20,3	1,2	750	615	22,6	4,5	KE6251D824PK01BHL
0,82	35,0	50,0	57,5	52,5	10,2	1,2	750	615	31,7	4,2	KE6251D826PK01BHL

**RATED
VOLTAGE
2500VDC**

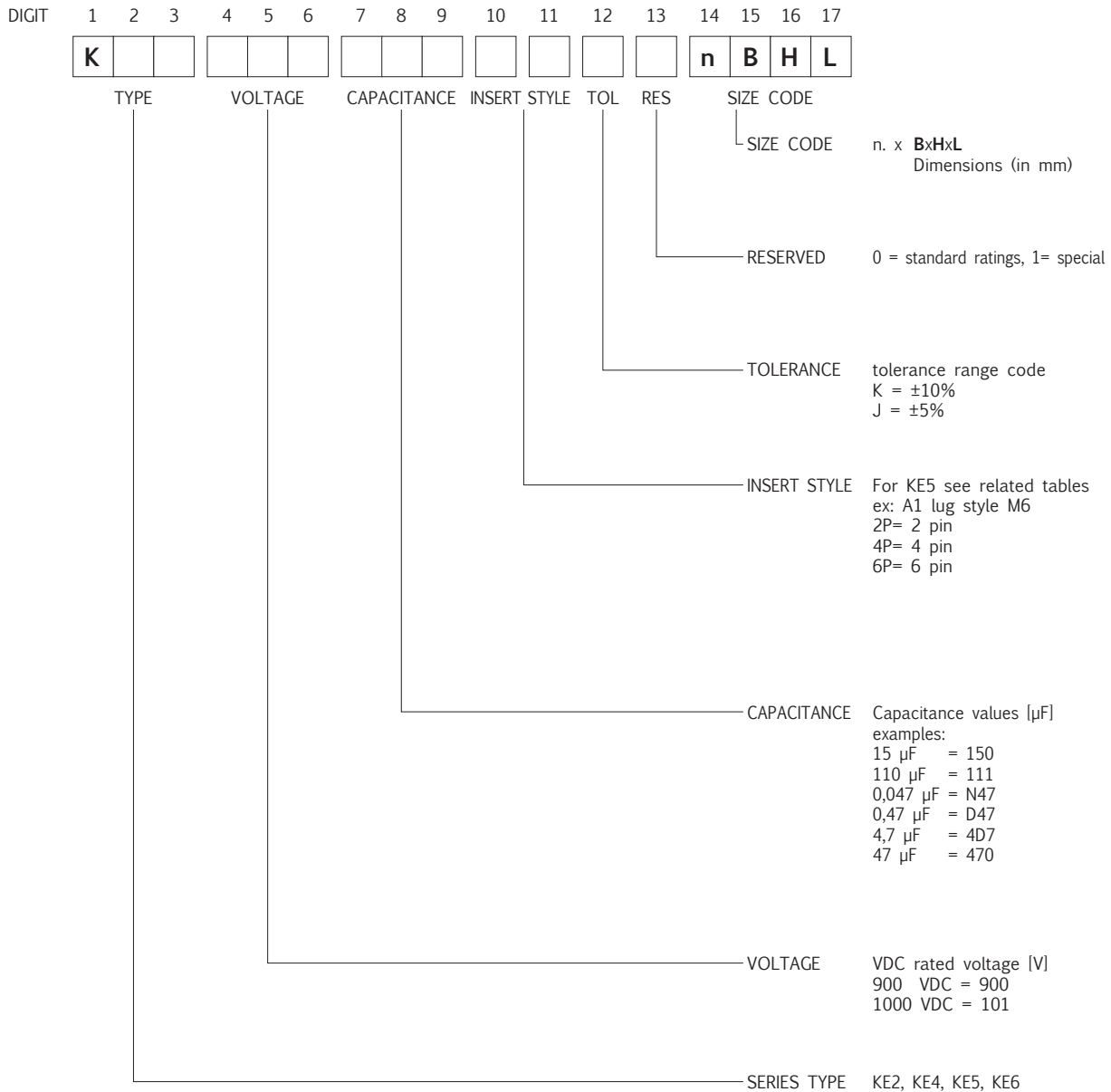
KE6 TYPE STANDARD RATINGS

**RATED
VOLTAGE
3000VDC**

Cap. μF	Dimensions (mm)					d	du/dt V/μs	I _{peak} (A)	Max@60°C @100KHz (A)	ESR @100KHz (mΩ)	PART NUMBER
0,0047	7,0	16,0	26,5	22,5		0,8	3400	16	1,9	130,5	KE6301N472PK01BHL
0,01	11,0	20,0	26,5	22,5		0,8	3400	34	3,1	68,5	KE6301N102PK01BHL
0,01	9,0	18,0	31,0	27,5		0,8	2750	28	2,9	81,5	KE6301N102PK02BHL
0,022	12,0	22,0	26,5	22,5		0,8	3400	75	4,7	49,5	KE6301N222PK01BHL
0,022	11,0	20,0	31,0	27,5		0,8	2750	61	4,4	57,5	KE6301N222PK02BHL
0,022	13,0	22,0	31,0	27,5		0,8	2750	61	4,8	39,7	KE6301N222PK03BHL
0,033	15,0	24,5	31,0	27,5		0,8	2750	91	5,0	28,5	KE6301N332PK01BHL
0,047	18,0	33,0	31,0	27,5		1,0	2750	129	7,9	20,7	KE6301N472PK02BHL
0,1	22,0	30,0	42,5	37,5		1,2	1600	160	10,9	14,5	KE6301D102PK01BHL
0,1	22,0	30,0	42,5	37,5	10,2	1,2	1600	160	11,2	13,5	KE6301D104PK01BHL
0,15	28,0	37,0	42,5	37,5		1,2	1600	240	11,3	10,2	KE6301D152PK01BHL
0,15	28,0	37,0	42,5	37,5	10,2	1,2	1600	240	15,1	9,5	KE6301D154PK01BHL
0,18	28,0	37,0	42,5	37,5	10,2	1,2	1600	288	15,8	8,7	KE6301D184PK01BHL
0,22	30,0	45,0	42,5	37,5		1,2	1600	352	11,3	8,7	KE6301D222PK01BHL
0,22	30,0	45,0	42,5	37,5	20,3	1,2	1600	352	18,7	7,1	KE6301D224PK01BHL
0,22	33,0	45,0	42,5	37,5	10,2	1,2	1600	352	21,8	9,2	KE6301D226PK01BHL
0,24	33,0	45,0	42,5	37,5	10,2	1,2	1600	384	19,6	8,7	KE6301D246PK01BHL
0,27	33,0	45,0	42,5	37,5	10,2	1,2	1600	432	20,5	8,6	KE6301D276PK01BHL
0,33	33,0	45,0	42,5	37,5	10,2	1,2	1600	528	22,2	8,0	KE6301D336PK01BHL
0,33	30,0	45,0	57,5	52,5		1,2	875	287	11,3	8,6	KE6301D332PK01BHL
0,33	30,0	45,0	57,5	52,5	20,3	1,2	875	287	22,6	9,0	KE6301D334PK01BHL
0,35	33,0	45,0	42,5	37,5	10,2	1,2	1600	560	22,4	5,2	KE6301D356PK01BHL
0,47	35,0	50,0	57,5	52,5		1,2	875	409	11,3	7,3	KE6301D472PK01BHL
0,47	35,0	50,0	57,5	52,5	20,3	1,2	875	409	22,6	5,7	KE6301D474PK01BHL

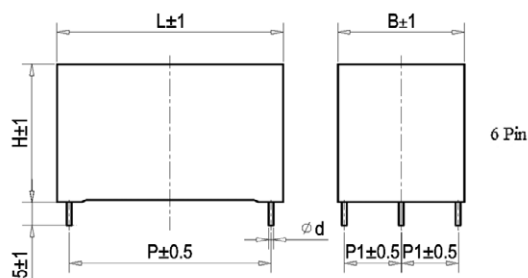
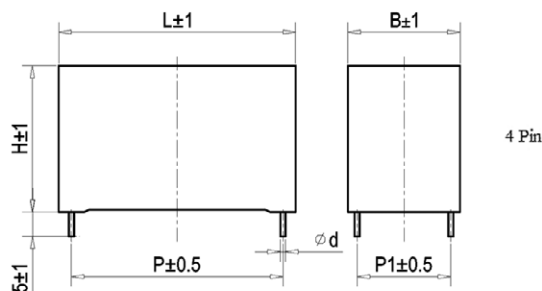
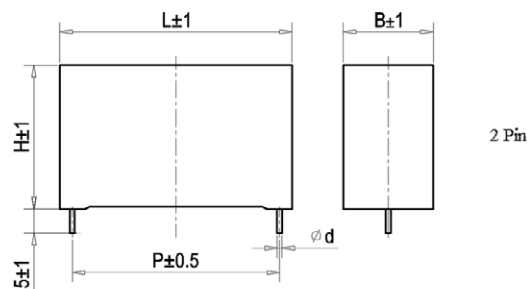
PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

New PART-NUMBER CODE in use since Sep 2010. Total length is 17 digits.
Please see examples below and have a reference code from the standard ratings capacitors pages.



KE9 TYPE -40°C +105°C 100000H

Applications	Inverter, Motor drive, Switch power supply, AC filter
Reference Standard	IEC 61071
Dielectric	Metallized Polypropylene film
Construction	film plastic case package, resin filled (UL94 V-0)
Operating temperature range	-40 to +105°C
Capacitance	0.10 to 40μF
Rated Voltage	330 to 850 VDC (200 to 450 VAC)
Tolerance	±5%, ±10%
Dissipation factor	≤10×10 ⁻⁴ Measured at 100 Hz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C Test
Voltage terminal to case	Un≤1300V, 3KVAC (10s,50Hz) Un>1300V, 1.5Un+1000VAC (10s,50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)



KE9 TYPE STANDARD RATINGS

Cap μF	B	H	L	P	P1	d	du/dt V/μs	I _{peak} (A)	I _{Max} @60°C @10KHz(A)	ESR @10KHz (mΩ)	PART NUMBER
0,68	8,5	17	26,5	22,5		0,8	60	41	4	33,8	KE9330D682PK00BHL
1	10	18,5	26,5	22,5		0,8	60	60	5	25	KE93301D02PK00BHL
1,5	12	22	26,5	22,5		0,8	60	90	5	18,4	KE93301D52PK00BHL
1,5	11	20	31	27,5		0,8	45	68	5	24	KE93301D52PK01BHL
2	13	22	31	27,5		1	45	90	7	18	KE93302D02PK00BHL
2,2	13	22	31	27,5		1	45	99	7	16,7	KE93302D22PK00BHL
2,5	13	22	31	27,5		1	45	113	8	15,1	KE93302D52PK00BHL
3	15	24,5	31	27,5		1	45	135	8	13,1	KE93303D02PK00BHL
3,3	15	24,5	31	27,5		1	45	149	8	12,2	KE93303D32PK00BHL
4,7	18	33	31	27,5		1,2	45	212	11	8,6	KE93304D72PK00BHL
4,7	18	33	31	27,5	5,1	1,2	45	212	13	7,8	KE93304D74PK01BHL
5	18	33	31	27,5		1,2	45	225	11	8,2	KE93305D02PK00BHL
5	18	33	31	27,5	5,1	1,2	45	225	13	7,4	KE93305D04PK01BHL
6,8	22	31	31	27,5		1,2	45	306	11	6,6	KE93306D82PK00BHL
6,8	22	31	31	27,5	10,2	1,2	45	306	15	5,7	KE93306D84PK01BHL
6,8	17	28	42,5	37,5		1,2	30	204	11	10,2	KE93306D82PK02BHL
15	28	37	42,5	37,5		1,2	30	450	11	5,6	KE93301502PK00BHL
15	28	37	42,5	37,5	10,2	1,2	30	450	21	4,8	KE93301504PK01BHL
20	30	45	42,5	37,5		1,2	30	600	11	4,7	KE93302002PK00BHL
20	30	45	42,5	37,5	20,3	1,2	30	600	23	3,8	KE93302004PK01BHL
25	30	45	57,5	52,5		1,2	17	425	11	6,2	KE93302502PK00BHL
25	30	45	57,5	52,5	20,3	1,2	17	425	23	5,4	KE93302504PK01BHL
30	30	45	57,5	52,5		1,2	17	510	11	5,5	KE93303002PK00BHL
30	30	45	57,5	52,5	20,3	1,2	17	510	23	4,6	KE93303004PK01BHL
30	30	45	57,5	52,5	10,2	1,2	17	510	26	4,3	KE93303006PK02BHL
33	35	50	57,5	52,5		1,2	17	561	11	5,1	KE93303302PK00BHL
33	35	50	57,5	52,5	20,3	1,2	17	561	23	4,3	KE93303304PK01BHL
33	35	50	57,5	52,5	10,2	1,2	17	561	29	4	KE93303306PK02BHL
35	35	50	57,5	52,5		1,2	17	595	11	4,9	KE93303502PK00BHL
35	35	50	57,5	52,5	20,3	1,2	17	595	23	4,1	KE93303504PK01BHL
35	35	50	57,5	52,5	10,2	1,2	17	595	30	3,8	KE93303506PK02BHL
40	35	50	57,5	52,5		1,2	17	680	11	4,5	KE93304002PK00BHL
40	35	50	57,5	52,5	20,3	1,2	17	680	23	3,7	KE93304004PK01BHL
40	35	50	57,5	52,5	10,2	1,2	17	680	32	3,4	KE93304006PK02BHL

Un 330VDC
Urms 200VAC
Us 495V

KE9 TYPE STANDARD RATINGS

Cap μF	B	H	L	P	P1	d	du/dt V/μs	I _{peak} (A)	I _{Max} @60°C @10KHz(A)	ESR @10KHz (mΩ)	PART NUMBER
0,47	8,5	17	26,5	22,5		0,8	73	34	4	41,3	KE94004D72PK00BHL
0,68	10	18,5	26,5	22,5		0,8	73	50	5	30,7	KE94006D82PK00BHL
0,68	9	18	31	27,5		0,8	55	37	4	40,2	KE94006D82PK01BHL
1	12	22	26,5	22,5		0,8	73	73	5	22,7	KE94001D02PK00BHL
1	11	20	31	27,5		0,8	55	55	5	29,6	KE94001D02PK01BHL
1,5	13	22	31	27,5		1	55	83	7	20,2	KE94001D52PK00BHL
2	15	24,5	31	27,5		1	55	110	8	16	KE94002D02PK00BHL
2,2	15	24,5	31	27,5		1	55	121	8	14,9	KE94002D22PK00BHL
2,5	17	28	31	27,5		1	55	138	8	13,4	KE94002D52PK00BHL
3	17	28	31	27,5		1,2	55	165	10	10,9	KE94003D02PK00BHL
3	17	28	31	27,5	5,1	1,2	55	165	11	10,1	KE94003D04PK01BHL
3,3	18	33	31	27,5		1,2	55	182	11	10,1	KE94003D32PK00BHL
3,3	18	33	31	27,5	5,1	1,2	55	182	12	9,3	KE94003D34PK01BHL
4	18	33	31	27,5		1,2	55	220	11	8,7	KE94004D02PK00BHL
4	18	33	31	27,5	10,2	1,2	55	220	13	7,9	KE94004D04PK01BHL
4,7	22	31	31	27,5		1,2	55	259	11	7,7	KE94004D72PK00BHL
4,7	22	31	31	27,5	10,2	1,2	55	259	14	6,9	KE94004D74PK01BHL
4,7	17	28	42,5	37,5		1,2	40	188	10	13,7	KE94004D72PK02BHL
5	18	31,5	42,5	37,5		1,2	40	200	11	11,4	KE94005D02PK00BHL
6,8	22	30	42,5	37,5		1,2	40	272	11	10,2	KE94006D82PK00BHL
6,8	22	30	42,5	37,5	10,2	1,2	40	272	14	9,3	KE94006D84PK01BHL
10	28	37	42,5	37,5		1,2	40	400	11	6,7	KE94001002PK00BHL
10	28	37	42,5	37,5	20,3	1,2	40	400	19	5,8	KE94001004PK01BHL
10	28	37	42,5	37,5	10,2	1,2	40	400	20	5,6	KE94001006PK02BHL
15	30	45	42,5	37,5		1,2	40	600	11	5	KE94001502PK00BHL
15	30	45	42,5	37,5	20,3	1,2	40	600	23	4,2	KE94001504PK01BHL
15	30	45	42,5	37,5	10,2	1,2	40	600	25	3,9	KE94001506PK02BHL
20	30	45	57,5	52,5		1,2	20	400	11	6,4	KE94002002PK00BHL
20	30	45	57,5	52,5	20,3	1,2	20	400	23	5,6	KE94002004PK01BHL
20	30	45	57,5	52,5	10,2	1,2	20	400	24	5,3	KE94002006PK02BHL
22	35	50	57,5	52,5		1,2	20	440	11	6	KE94002202PK00BHL
22	35	50	57,5	52,5	20,3	1,2	20	440	23	5,2	KE94002204PK01BHL
22	35	50	57,5	52,5	10,2	1,2	20	440	27	4,9	KE94002206PK02BHL
25	35	50	57,5	52,5		1,2	20	500	11	5,5	KE94002502PK00BHL
25	35	50	57,5	52,5	20,3	1,2	20	500	23	4,6	KE94002504PK01BHL
25	35	50	57,5	52,5	10,2	1,2	20	500	28	4,4	KE94002506PK02BHL

Un 400VDC
Urms 250VAC
Us 600V

KE9 TYPE STANDARD RATINGS

Cap μF	B	H	L	P	P1	d	du/dt V/μs	I _{peak} (A)	I _{Max} @60°C @10KHz(A)	ESR @10KHz (mΩ)	PART NUMBER
0,22	8,5	17	26,5	22,5		0,8	95	21	3	67,3	KE9600D222PK00BHL
0,33	10	18,5	26,5	22,5		0,8	95	31	4	48	KE9600D332PK00BHL
0,47	11	20	26,5	22,5		0,8	95	45	4	36,4	KE9600D472PK00BHL
0,68	11	20	31	27,5		0,8	75	51	5	34,9	KE9600D682PK00BHL
1	15	24,5	31	27,5		1	75	75	6	24,2	KE96001D02PK00BHL
1,5	18	33	31	27,5		1,2	75	113	9	16,5	KE96001D52PK00BHL
2	18	33	31	27,5		1,2	75	150	10	13	KE96002D02PK00BHL
2	18	33	31	27,5	10,2	1,2	75	150	10	12,1	KE96002D04PK01BHL
2,2	18	33	31	27,5		1,2	75	165	10	12	KE96002D22PK00BHL
2,2	18	33	31	27,5	10,2	1,2	75	165	11	11,2	KE96002D24PK01BHL
4	22	30	42,5	37,5		1,2	55	220	11	11,4	KE96004D02PK00BHL
4	22	30	42,5	37,5	10,2	1,2	55	220	13	10,6	KE96004D04PK01BHL
4,7	28	37	42,5	37,5		1,2	55	259	11	10	KE96004D72PK00BHL
4,7	28	37	42,5	37,5	10,2	1,2	55	259	15	9,2	KE96004D74PK01BHL
5	28	37	42,5	37,5		1,2	55	275	11	9,6	KE96005D02PK00BHL
5	28	37	42,5	37,5	10,2	1,2	55	275	16	8,7	KE96005D04PK01BHL
6,8	30	45	42,5	37,5		1,2	55	374	11	7,5	KE96006D82PK00BHL
6,8	30	45	42,5	37,5	20,3	1,2	55	374	19	6,7	KE96006D84PK01BHL
9	30	45	42,5	37,5		1,2	55	495	11	6,1	KE96009D02PK00BHL
9	30	45	42,5	37,5	20,3	1,2	55	495	21	5,3	KE96009D04PK01BHL
9	30	45	42,5	37,5	10,2	1,2	55	495	22	5	KE96009D06PK02BHL
10	30	45	57,5	52,5		1,2	30	300	11	8,8	KE96001002PK00BHL
10	30	45	57,5	52,5	20,3	1,2	30	300	20	8	KE96001004PK01BHL
15	35	50	57,5	52,5		1,2	30	450	11	6,5	KE96001502PK00BHL
15	35	50	57,5	52,5	20,3	1,2	30	450	23	5,6	KE96001504PK01BHL
15	35	50	57,5	52,5	10,2	1,2	30	450	25	5,4	KE96001506PK02BHL

Un 600VDC
Urms 330VAC
Us 900V

KE9 TYPE STANDARD RATINGS

Cap μF	B	Dimensions (mm)					du/dt V/μs	I _{peak} (A)	I _{Max@60°C} @10KHz(A)	ESR @10KHz (mΩ)	PART NUMBER
0,15	8,5	17	26,5	22,5		0,8	135	20	3	82	KE9700D152PK00BHL
0,22	10	18,5	26,5	22,5		0,8	135	30	3	61	KE9700D222PK00BHL
0,33	11	20	26,5	22,5		0,8	135	45	4	43,1	KE9700D332PK00BHL
0,33	11	20	31	27,5		0,8	105	35	4	55,1	KE9700D332PK01BHL
0,47	13	22	31	27,5		1	105	49	5	40	KE9700D472PK00BHL
0,68	15	24,5	31	27,5		1	105	71	6	28,7	KE9700D682PK00BHL
1	17	28	31	27,5		1,2	105	105	8	19,9	KE97001D02PK00BHL
1	18	33	31	27,5	10,2	1,2	105	105	8	19,1	KE97001D04PK01BHL
1,5	22	31	31	27,5		1,2	105	158	10	14	KE97001D52PK00BHL
1,5	22	31	31	27,5	10,2	1,2	105	158	10	13,4	KE97001D54PK01BHL
1,5	17	28	42,5	37,5		1,2	70	105	8	21,9	KE97001D52PK02BHL
2	22	30	42,5	37,5		1,2	70	140	10	17	KE97002D02PK00BHL
2,2	22	30	42,5	37,5		1,2	70	154	10	15,9	KE97002D22PK00BHL
2,2	22	30	42,5	37,5	10,2	1,2	70	154	11	15,1	KE97002D24PK01BHL
3	28	37	42,5	37,5		1,2	70	210	11	12,1	KE97003D02PK00BHL
3	28	37	42,5	37,5	20,3	1,2	70	210	14	11,2	KE97003D04PK01BHL
3,3	28	37	42,5	37,5		1,2	70	231	11	11,3	KE97003D32PK00BHL
3,3	28	37	42,5	37,5	20,3	1,2	70	231	14	10,5	KE97003D34PK01BHL
4	28	37	42,5	37,5		1,2	70	280	11	10,4	KE97004D02PK00BHL
4	28	37	42,5	37,5	20,3	1,2	70	280	15	9,4	KE97004D04PK01BHL
4,7	30	45	42,5	37,5		1,2	70	329	11	8,5	KE97004D72PK00BHL
4,7	30	45	42,5	37,5	20,3	1,2	70	329	18	7,6	KE97004D74PK01BHL
5	30	45	42,5	37,5		1,2	70	350	11	8,1	KE97005D02PK00BHL
5	30	45	42,5	37,5	20,3	1,2	70	350	18	7,3	KE97005D04PK01BHL
6	33	45	42,5	37,5		1,2	70	420	11	7,5	KE97006D02PK00BHL
6	33	45	42,5	37,5	20,3	1,2	70	420	20	6,7	KE97006D04PK01BHL
6,8	30	45	57,5	52,5		1,2	40	272	11	10,3	KE97006D82PK00BHL
6,8	30	45	57,5	52,5	20,3	1,2	40	272	18	9,5	KE97006D84PK01BHL
8	35	50	57,5	52,5		1,2	40	320	11	9	KE97008D02PK00BHL
8	35	50	57,5	52,5	20,3	1,2	40	320	21	8,2	KE97008D04PK01BHL
8	35	50	57,5	52,5	10,2	1,2	40	320	21	7,8	KE97008D06PK02BHL
9	35	50	57,5	52,5		1,2	40	360	11	8,2	KE97009D02PK00BHL
9	35	50	57,5	52,5	20,3	1,2	40	360	22	7,4	KE97009D04PK01BHL
9	35	50	57,5	52,5	10,2	1,2	40	360	22	7,1	KE97009D06PK02BHL

Un 700VDC
Urms 400VAC
Us 1050V

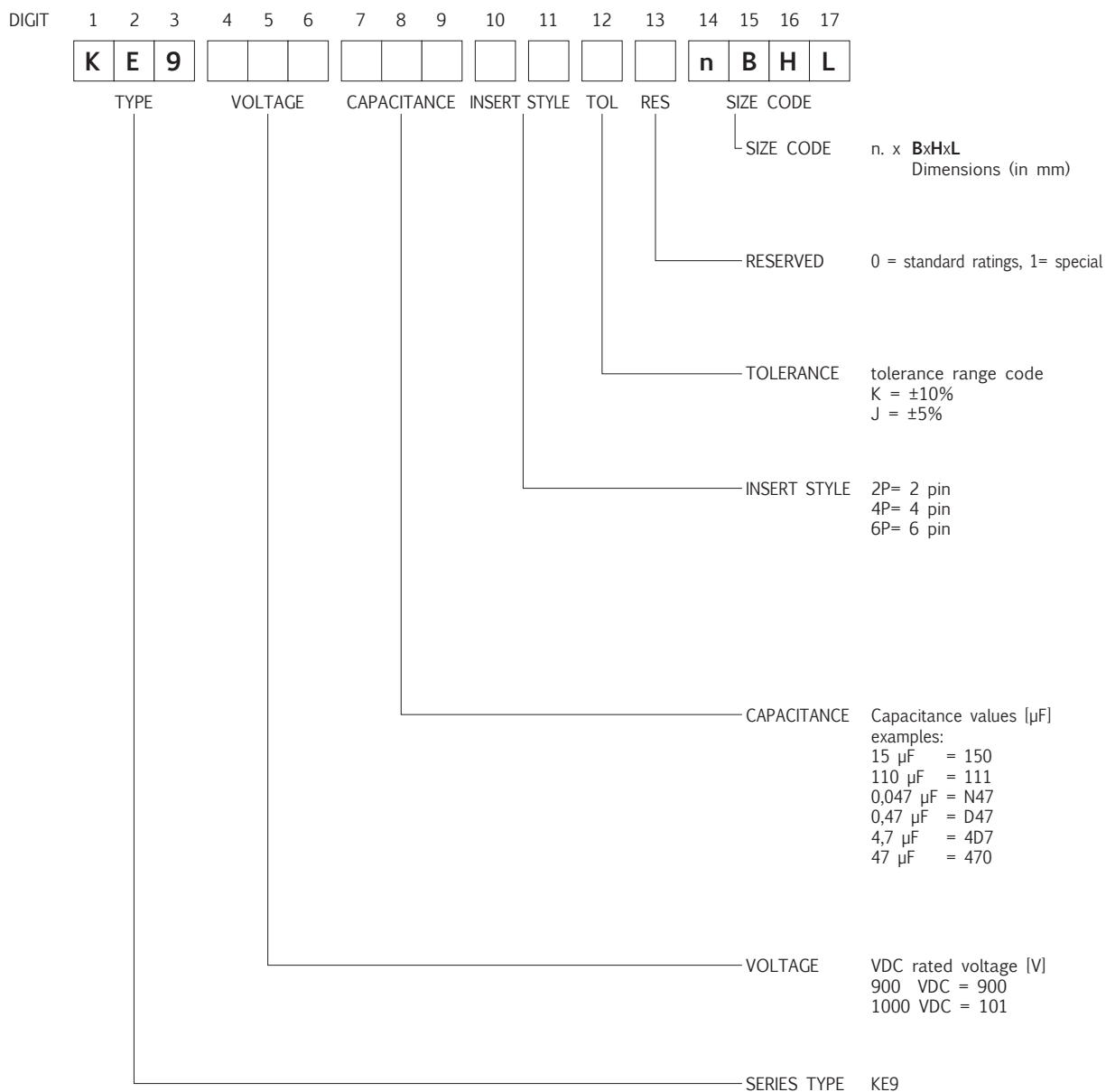
KE9 TYPE STANDARD RATINGS

Cap μF	B	Dimensions (mm)					du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz(A)	ESR @10KHz (mΩ)	PART NUMBER
0,1	8,5	17	26,5	22,5		0,8	300	30	2	111,6	KE9850D102PK00BHL
0,1	9	18	31	27,5		0,8	200	20	2	138,4	KE9850D102PK01BHL
0,15	10	18,5	26,5	22,5		0,8	300	45	3	78,4	KE9850D152PK00BHL
0,15	9	18	31	27,5		0,8	200	30	3	98,4	KE9850D152PK01BHL
0,22	11	20	26,5	22,5		0,8	300	66	3	56,1	KE9850D222PK00BHL
0,22	11	20	31	27,5		0,8	200	44	3	71,5	KE9850D222PK01BHL
0,33	13	22	31	27,5		1	200	66	4	48,6	KE9850D332PK00BHL
0,47	15	24,5	31	27,5		1	200	94	5	36	KE9850D472PK00BHL
0,68	17	28	31	27,5		1,2	200	136	7	25,1	KE9850D682PK00BHL
0,68	17	28	31	27,5	5,1	1,2	200	136	7	24,5	KE9850D684PK01BHL
1	18	33	31	27,5		1,2	200	200	8	18,3	KE98501D02PK00BHL
1	18	33	31	27,5	10,2	1,2	200	200	9	17,5	KE98501D04PK01BHL
1	17	28	42,5	37,5		1,2	110	110	7	27,5	KE98501D02PK02BHL
1,5	22	30	42,5	37,5		1,2	110	165	9	19,5	KE98501D52PK00BHL
2	28	37	42,5	37,5		1,2	110	220	11	15,2	KE98502D02PK00BHL
2	28	37	42,5	37,5	10,2	1,2	110	220	12	14,2	KE98502D04PK01BHL
2,2	28	37	42,5	37,5		1,2	110	242	11	14	KE98502D22PK00BHL
2,2	28	37	42,5	37,5	10,2	1,2	110	242	13	13,2	KE98502D24PK01BHL
2,5	28	37	42,5	37,5		1,2	110	275	11	12,6	KE98502D52PK00BHL
2,5	28	37	42,5	37,5	20,3	1,2	110	275	14	11,7	KE98502D54PK01BHL
3	30	45	42,5	37,5		1,2	110	330	11	10,8	KE98503D02PK00BHL
3	30	45	42,5	37,5	20,3	1,2	110	330	16	9,8	KE98503D04PK01BHL
3	30	45	42,5	37,5	10,2	1,2	110	330	16	9,6	KE98503D06PK02BHL
3,3	30	45	42,5	37,5		1,2	110	363	11	10	KE98503D32PK00BHL
3,3	30	45	42,5	37,5	20,3	1,2	110	363	16	9,2	KE98503D34PK01BHL
3,3	30	45	42,5	37,5	10,2	1,2	110	363	17	8,9	KE98503D36PK02BHL
4	30	45	57,5	52,5		1,2	55	220	11	13,9	KE98504D02PK00BHL
4	30	45	57,5	52,5	20,3	1,2	55	220	15	12,9	KE98504D04PK01BHL
4	30	45	57,5	52,5	10,2	1,2	55	220	16	12,6	KE98504D06PK02BHL
4,7	30	45	57,5	52,5		1,2	55	259	11	12,2	KE98504D72PK00BHL
4,7	30	45	57,5	52,5	20,3	1,2	55	259	16	11,2	KE98504D74PK01BHL
4,7	30	45	57,5	52,5	10,2	1,2	55	259	17	10,9	KE98504D76PK02BHL
5,6	35	50	57,5	52,5		1,2	55	308	11	10,5	KE98505D62PK00BHL
5,6	35	50	57,5	52,5	20,3	1,2	55	308	19	9,7	KE98505D64PK01BHL
5,6	35	50	57,5	52,5	10,2	1,2	55	308	19	9,3	KE98505D66PK02BHL
6	35	50	57,5	52,5		1,2	55	330	11	9,9	KE98506D02PK00BHL
6	35	50	57,5	52,5	20,3	1,2	55	330	20	9,1	KE98506D04PK01BHL
6	35	50	57,5	52,5	10,2	1,2	55	330	20	8,8	KE98506D06PK02BHL

Un 850VDC
Urms 450VAC
Us 1275V

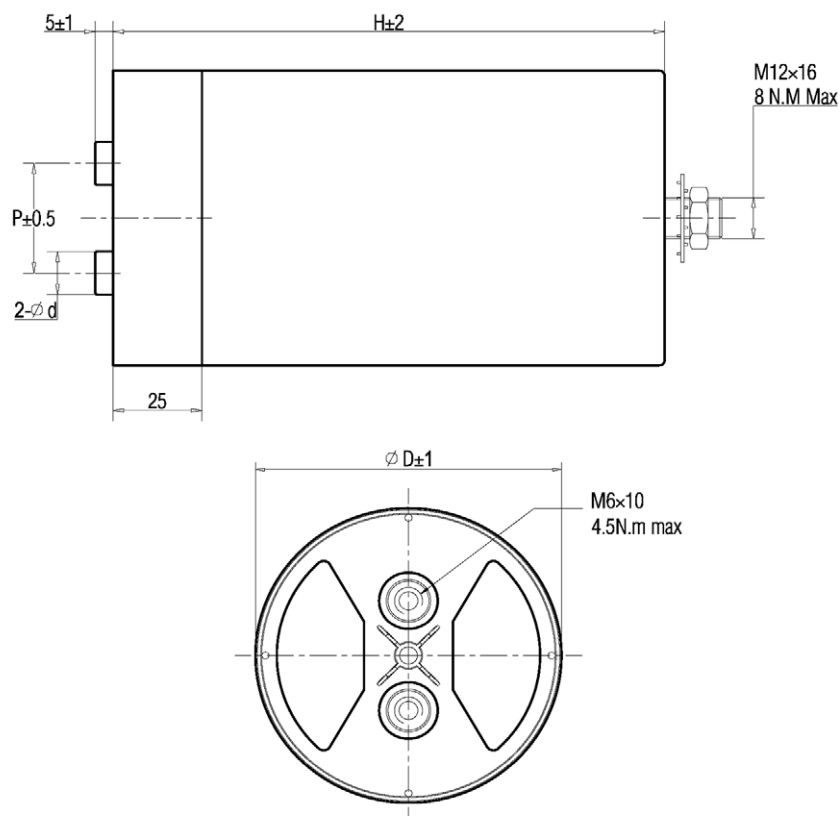
PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits.



KE8 TYPE -40°C +85°C 100000H

Applications	Inverter, AC Filter, UPS
Reference Standard	IEC 61071
Dielectric	Metallized Polypropylene film
Construction	Aluminum package, plastic bracket
Potting	Resin filled (UL94 V-0)
Operating temperature range	-40 to +85°C
Capacitance	10 to 300 μ F
Rated Voltage	300 to 1400 VAC
Tolerance	$\pm 5\%$, $\pm 10\%$
Dissipation factor	$\leq 2 \times 10^{-3}$ Measured at 100 Hz and 20 $\pm 5^\circ$ C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	2.15Un (AC @50Hz) applied to 10s at 20 $\pm 5^\circ$ C
Test voltage terminal to case	2.15Un+2000VAC (10s,50Hz) MIN 3KVAC
Insulation resistance	30000s but not exceed 30G Ω , after 1 minute of electrification at 100VDC (20 $\pm 5^\circ$ C)



DISK DIMENSIONS

D= 76,86 mm	D= 96 mm	D= 116 mm	D= 136 mm
d= 12,5 mm	d= 12,5 mm	d= 14 mm	d= 14 mm
P= 32 mm	P= 45 mm	P= 50 mm	P= 50 mm

KE8 TYPE STANDARD RATINGS

Urms 300VAC
Un 420VAC

Urms 450VAC
Un 640VAC

Urms 500VAC
Un 710VAC

Urms 550VAC
Un 780VAC

Cap μF	D (mm)	H (mm)	Ipeak (KA)	IMax@45°C @10KHz(A)	ESR @1.0KHz (mΩ)	Rth (k/w)	PART NUMBER
115	76	70	1,3	39	2,1	5,4	KE8300121_6K0K070
150	86	70	1,7	45	1,8	4,5	KE8300151_6K0Q070
200	86	95	3,3	61	1,1	4,0	KE8300201_6K0Q095
230	76	125	2,5	55	1,3	4,1	KE8300231_6K0K125
300	86	125	3,3	62	1,2	3,5	KE8300301_6K0Q125

Cap μF	D (mm)	H (mm)	Ipeak (KA)	IMax@45°C @10KHz(A)	ESR @1.0KHz (mΩ)	Rth (k/w)	PART NUMBER
50	76	70	0,9	35	2,8	5,4	KE8450500_6K0K070
60	76	80	0,8	34	3,0	5,1	KE8450600_6K0K080
70	86	70	1,2	42	2,3	4,5	KE8450700_6K0Q070
80	86	80	1,1	40	2,5	4,3	KE8450800_6K0Q080
100	76	125	1,7	51	1,7	4,1	KE8450101_6K0K125
120	76	145	1,7	50	1,8	3,8	KE8450121_6K0K145
130	86	125	2,2	58	1,5	3,5	KE8450131_6K0Q125
200	96	150	2,8	65	1,4	2,8	KE8450201_6K0R150

Cap μF	D (mm)	H (mm)	Ipeak (KA)	IMax@45°C @10KHz(A)	ESR @1.0KHz (mΩ)	Rth (k/w)	PART NUMBER
45	76	70	0,8	35	3,0	5,4	KE8500450_6K0K070
55	76	80	0,8	33	3,1	5,1	KE8500550_6K0K080
60	86	70	1,1	41	2,5	4,5	KE8500600_6K0Q070
72	86	80	1,1	39	2,6	4,3	KE8500720_6K0Q080
90	76	125	1,6	50	1,8	4,1	KE8500900_6K0K125
110	76	145	1,6	49	1,9	3,8	KE8500111_6K0K145
120	86	125	2,2	57	1,5	3,5	KE8500121_6K0Q125
150	86	145	2,2	57	1,6	3,3	KE8500151_6K0Q145
180	96	150	2,6	64	1,5	2,8	KE8500181_6K0R150

Cap μF	D (mm)	H (mm)	Ipeak (KA)	IMax@45°C @10KHz(A)	ESR @1.0KHz (mΩ)	Rth (k/w)	PART NUMBER
25	76	70	1,2	38	3,1	5,4	KE8550250_6K0K070
30	76	80	1,2	37	3,1	5,1	KE8550300_6K0K080
40	76	95	1,2	36	3,1	4,7	KE8550400_6K0K095
50	76	125	2,5	54	1,8	4,1	KE8550500_6K0K125
60	76	145	2,4	53	1,9	3,8	KE8550600_6K0K145
68	86	125	3,4	61	1,6	3,5	KE8550680_6K0Q125
82	86	145	3,3	61	1,6	3,3	KE8550820_6K0Q145
110	86	175	3,4	62	1,6	3,0	KE8550111_6K0Q175
140	96	180	4,3	69	1,4	2,6	KE8550141_6K0R180
160	116	150	6,3	81	1,2	2,2	KE8550161_6K0T150
200	116	180	6,1	82	1,3	2,0	KE8550201_6K0T180

KE8 TYPE STANDARD RATINGS

Cap μF	D (mm)	H (mm)	I _{peak} (KA)	I _{Max} @45°C @10KHz(A)	ESR @1.0KHz (mΩ)	R _{th} (k/w)	PART NUMBER
18	76	70	1,1	36	3,7	5,4	KE8690180_6K0K070
22	76	80	1,1	36	3,6	5,1	KE8690220_6K0K080
28	76	95	1,0	34	3,7	4,7	KE8690280_6K0K095
35	76	125	2,1	52	2,2	4,1	KE8690350_6K0K125
44	76	145	2,1	52	2,1	3,8	KE8690440_6K0K145
58	86	145	2,8	59	1,8	3,3	KE8690580_6K0Q145
75	86	175	2,8	59	1,6	3,0	KE8690750_6K0Q175
95	96	180	3,5	67	1,6	2,6	KE8690950_6K0R180
110	116	150	5,3	79	1,3	2,2	KE8690111_6K0T150
145	116	180	5,3	80	1,3	2,0	KE8690151_6K0T180

Urms 690VAC
Un 980VAC

Cap μF	D (mm)	H (mm)	I _{peak} (KA)	I _{Max} @45°C @10KHz(A)	ESR @1.0KHz (mΩ)	R _{th} (k/w)	PART NUMBER
10	76	70	0,7	32	5,6	5,4	KE8850100_6K0K070
15	76	80	0,8	33	4,6	5,1	KE8850150_6K0K080
20	76	95	0,9	32	4,4	4,7	KE8850200_6K0K095
27	76	125	1,9	50	2,5	4,1	KE8850270_6K0K125
34	86	125	2,4	57	2,2	3,5	KE8850340_6K0Q125
42	86	145	2,4	57	2,1	3,3	KE8850420_6K0Q145
56	86	175	2,4	57	2,0	3,0	KE8850560_6K0Q175
70	96	180	3,0	65	1,8	2,6	KE8850700_6K0R180
80	116	150	4,5	78	1,5	2,2	KE8850800_6K0T150
105	116	180	4,5	78	1,5	2,0	KE8850111_6K0T180

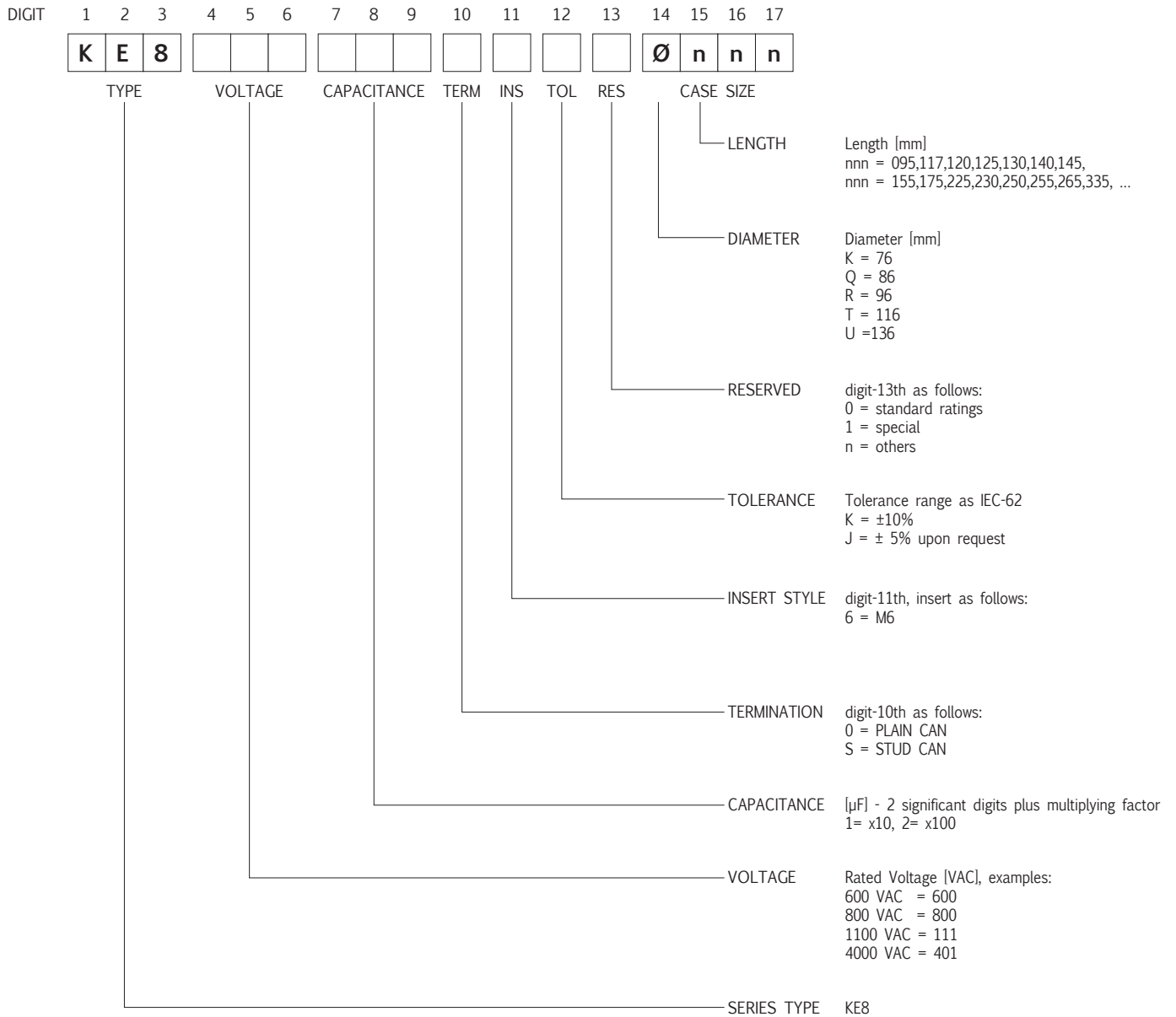
Urms 850VAC
Un 1200VAC

Cap μF	D (mm)	H (mm)	I _{peak} (KA)	I _{Max} @45°C @10KHz(A)	ESR @1.0KHz (mΩ)	R _{th} (k/w)	PART NUMBER
13	76	175	2,2	50	4,0	3,4	KE81400130_6K0K175
16	86	175	2,7	56	3,4	3,0	KE81400160_6K0Q175
33	116	180	5,6	78	2,1	2,0	KE81400330_6K0T180
46	136	180	7,7	90	1,7	1,7	KE81400460_6K0U180

Urms 1400VAC
Un 1980VAC

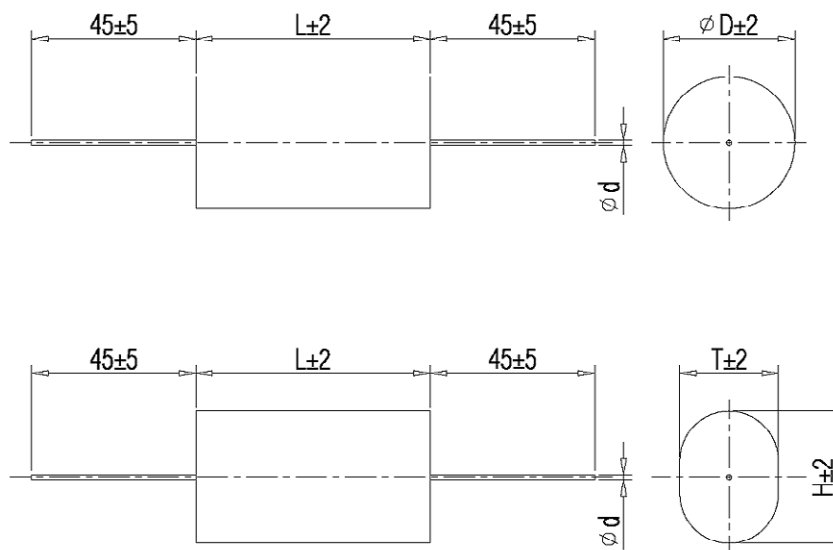
PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits



K9E TYPE -40°C +85°C 100000H

Applications	High Frequency IGBT, Surge absorption
Reference Standard	IEC 61071
Dielectric	Metallized Polypropylene film
Construction	Polyester Film plastic case package, resin filled (UL94 V-0)
Operating temperature range	-40 to +85°C
Capacitance	0.0068 to 8.5μF
Rated Voltage	700 to 3000 VDC (380 to 750 VAC)
Tolerance	±5%, ±10%
Dissipation factor	≤6×10 ⁻⁴ Measured at 100 Hz and 20±5°C
Life expectancy	100,000 hours at Un and 70°C (Hotspot temperature)
Dielectric strength	1.5Un (DC) applied to 10s at 20±5°C
Test voltage terminal to case	1.5Un+1000VAC (10s,50Hz) MIN 3KVAC(10s,50Hz)
Insulation resistance	30000s but not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)



K9E TYPE STANDARD RATINGS

Cap μF	L	Lenght (mm)				du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,22	32		7,9	14,3	0,8	480	106	5,0	13,7	K9E700D22E8K03CJ3
0,33	32	14,2	9,5	17,5	0,8	480	158	5,0	11,9	K9E700D33_8K03DTH
0,47	32	16,6	11,9	19,9	0,8	480	226	5,0	7,5	K9E700D47_8K03DTH
0,68	32	19,7	14,9	22,9	1,0	480	326	8,0	5,9	K9E700D68_0K03DTH
0,68	44	15,6	10,9	18,9	1,0	325	221	8,0	7,7	K9E700D68_0K04DTH
1,0	44	18,7	13,9	21,9	1,2	325	325	11,5	5,7	K9E7001D0_2K04DTH
1,5	44	22,6	16,3	27,5	1,2	325	488	12	5,3	K9E7001D5_2K04DTH
2,0	44	25,9	19,5	30,7	1,2	325	650	12	5,2	K9E7002D0_2K04DTH
2,2	44	27,1	20,7	31,9	1,2	325	715	12	4,8	K9E7002D2_2K04DTH
2,2	57	22,6	16,3	27,5	1,2	240	528	12	4,6	K9E7002D2_2K05DTH
2,5	44	28,8	22,4	33,6	1,2	325	813	12	4,5	K9E7002D5_2K04DTH
2,5	57	24,0	17,7	28,9	1,2	240	600	12	4,5	K9E7002D5_2K05DTH
3,0	44	31,4	25,0	36,2	1,2	325	975	12	4,3	K9E7003D0_2K04DTH
3,0	57	26,2	19,8	31,0	1,2	240	720	12	4,3	K9E7003D0_2K05DTH
3,3	44	32,9	26,4	37,6	1,2	325	1073	12	4,6	K9E7003D3_2K04DTH
3,5	57	28,2	21,8	33,0	1,2	240	840	12	4,2	K9E7003D5_2K05DTH
4,0	57	30,0	23,6	34,8	1,2	240	960	12	4,2	K9E7004D0_2K05DTH
4,7	57	32,5	26,0	37,2	1,2	240	1128	12	4,2	K9E7004D7_2K05DTH
5,6	57	35,4	28,8	40,0	1,2	240	1344	12	3,8	K9E7005D6_2K05DTH
6,8	57	38,9			1,2	240	1632	12	3,8	K9E7006D8R2K05389
8,5	57	43,3			1,2	240	2040	12	3,6	K9E7008D5R2K05433

Un 700VDC
Urms 380VAC
Us 1050V

Cap μF	L	Lenght (mm)				du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,10	32		5,9	12,3	0,8	700	70	3,7	22,6	K9E850D10E8K03AH3
0,15	32		7,6	14,0	0,8	700	105	4,9	20,3	K9E850D15_8K03DTH
0,22	32	13,7	9,1	17,1	0,8	700	154	5,0	13,2	K9E850D22_8K03DTH
0,22	44	11,1	7,1	13,5	0,8	400	88	4,9	12,5	K9E850D22_8K04DTH
0,33	32	16,4	11,7	19,7	1,0	700	231	8,0	8,5	K9E850D33_0K03DTH
0,33	44	13,2	8,5	16,5	1,0	400	132	6,4	11,8	K9E850D33_0K04DTH
0,47	32	19,3	14,6	22,6	1,0	700	329	8,0	9,5	K9E850D47_0K03DTH
0,47	44	15,4	10,7	18,7	1,0	400	188	8,0	7,5	K9E850D47_0K04DTH
0,68	44	18,2	13,5	21,5	1,0	400	272	8,0	5,2	K9E850D68_0K04DTH
1,0	44	21,8	15,6	26,8	1,2	400	400	12	5,7	K9E8501D0_2K04DTH
1,5	44	26,4	20,1	31,3	1,2	400	600	12	5,5	K9E8501D5_2K04DTH
2,0	44	30,4	23,9	35,1	1,2	400	800	12	4,8	K9E8502D0_2K04DTH
2,2	44	31,8	25,3	36,5	1,2	400	880	12	4,8	K9E8502D2_2K04DTH
2,2	57	26,5	20,1	31,3	1,2	290	638	12	3,5	K9E8502D2_2K05DTH
2,5	44	33,8	27,3	38,5	1,2	400	1000	12	3,4	K9E8502D5_2K04DTH
2,5	57	28,1	21,7	32,9	1,2	290	725	12	3,2	K9E8502D5_2K05DTH
3,0	57	30,7	24,3	35,5	1,2	290	870	12	3,0	K9E8503D0_2K05DTH
3,3	57	32,2	25,7	36,9	1,2	290	957	12	2,9	K9E8503D3_2K05DTH
4,0	57	35,3	28,8	40,0	1,2	290	1160	12	2,8	K9E8504D0_2K05DTH
4,7	57	38,2			1,2	290	1363	12	2,8	K9E8504D7R2K05382
5,6	57	41,6			1,2	290	1624	12	2,7	K9E8505D6R2K05416

Un 850VDC
Urms 450VAC
Us 1275V

K9E TYPE STANDARD RATINGS

Cap μF	L	Lenght (mm)				du/dt V/μs	I _{peak} (A)	I _{Max@60°C} @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,05	32		5,5	10,3	0,8	1100	52	2,7	36,7	K9E121D05E8K03AF3
0,07	32		6,9	11,7	0,8	1100	75	3,4	27,5	K9E121D07E8K03BG6
0,10	32		8,7	13,5	0,8	1100	110	4,5	17,9	K9E121D10E8K03DI5
0,10	44	9,8	5,8	12,2	0,8	650	65	3,5	27,3	K9E121D10_8K04DTH
0,15	32	14,3	9,6	17,6	1,0	1100	165	5,9	12,5	K9E121D15_0K03DTH
0,15	44	11,5	7,5	13,9	1,0	650	98	4,5	19,2	K9E121D15_0K04DTH
0,22	32	17,0	12,3	20,3	1,0	1100	242	7,7	10,8	K9E121D22_0K03DTH
0,22	44	13,6	8,9	16,9	1,0	650	143	5,9	12,5	K9E121D22_0K04DTH
0,33	32	20,5	15,7	23,7	1,0	1100	363	8,0	9,8	K9E121D33_0K03DTH
0,33	44	16,3	11,6	19,6	1,0	650	215	7,7	10,2	K9E121D33_0K04DTH
0,47	44	19,7	14,4	22,4	1,0	650	306	8,0	10,2	K9E121D47_0K04DTH
0,68	44	22,8	16,5	27,7	1,2	650	442	12,0	6,3	K9E121D68_2K04DTH
1,00	44	27,4	21,0	32,2	1,2	650	650	12,0	6,2	K9E121D0_2K04DTH
1,00	57	22,8	16,5	27,7	1,2	385	385	12,0	6,8	K9E121D0_2K05DTH
1,20	44	29,9	23,4	34,6	1,2	650	780	12,0	6,0	K9E121D2_2K04DTH
1,20	57	24,9	18,5	29,7	1,2	385	462	12,0	6,4	K9E121D2_2K05DTH
1,5	44	33,3	26,8	38,0	1,2	650	975	12	6,7	K9E121D5_2K04DTH
1,5	57	27,7	21,3	32,5	1,2	385	578	12	6,0	K9E121D5_2K05DTH
2,0	57	31,8	25,3	36,5	1,2	385	770	12	5,6	K9E121D0_2K05DTH
2,2	57	33,3	26,8	38,0	1,2	385	847	12	5,5	K9E121D2_2K05DTH
2,5	57	35,4	28,9	40,1	1,2	385	963	12	5,3	K9E121D5_2K05DTH
3,0	57	38,7			1,2	385	1155	12	5,0	K9E121D0R2K05387
3,3	57	40,6			1,2	385	1270	12	4,7	K9E121D3R2K05406
4,0	57	44,6			1,2	385	1540	12	4,5	K9E121D0R2K05446

Un 1200VDC
Urms 500VAC
Us 1800V

Cap μF	L	Lenght (mm)				du/dt V/μs	I _{peak} (A)	I _{Max@60°C} @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,068	32		8,5	14,9	0,8	1225	83	4,3	24,3	K9E15168ME8K03DJ9
0,10	32	14,7	10,0	18,0	0,8	1225	123	5,0	15,6	K9E151D10_8K03DTH
0,15	32	17,7	13,0	21,0	1,0	1225	184	7,5	7,2	K9E151D15_0K03DTH
0,22	32	21,1	14,9	26,1	1,0	1225	270	8,0	6,3	K9E151D22_0K03DTH
0,22	44	16,8	12,1	20,1	1,0	800	176	7,2	10,7	K9E151D22_0K04DTH
0,33	44	20,2	15,5	23,5	1,0	800	264	8,0	9,3	K9E151D33_0K04DTH
0,47	44	23,9	17,6	28,8	1,2	800	376	12,0	5,6	K9E151D47_2K04DTH
0,68	44	28,5	22,1	33,3	1,2	800	544	12	5,3	K9E151D68_2K04DTH
1,0	44	34,4	27,9	39,1	1,2	800	800	12	4,8	K9E151D0_2K04DTH
1,0	57	28,6	22,2	33,4	1,2	570	570	12	4,8	K9E151D0_2K05DTH
1,2	57	31,2	24,8	36,0	1,2	570	684	12	4,4	K9E151D2_2K05DTH
1,5	57	34,8	28,3	39,5	1,2	570	855	12	4,0	K9E151D5_2K05DTH
2,0	57	40,0			1,2	570	1140	12	3,8	K9E151D0R2K05400
2,2	57	41,9			1,2	570	1254	12	3,6	K9E151D2R2K05419
2,5	57	44,6			1,2	570	1425	12	3,5	K9E151D5R2K05446
2,5	57	28,1	21,7	32,9	1,2	290	725	12	3,2	K9E8502D5_2K05DTH

Un 1500VDC
Urms 570VAC
Us 2250V

K9E TYPE STANDARD RATINGS

Cap μF	L	Lenght (mm)				du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,033	32		5,9	12,3	0,8	1350	45	2,7	47,5	K9E17133ME8K03AH3
0,047	32		7,4	13,8	0,8	1350	63	3,4	30,4	K9E17147ME8K03CI8
0,068	32	13,3	8,7	16,7	0,8	1350	92	4,4	23,9	K9E17168M_8K03DTH
0,10	32	15,8	11,1	19,1	0,8	1350	135	5,0	17,3	K9E171D10_8K03DTH
0,15	32	19,1	14,3	22,3	1,0	1350	203	7,9	11,8	K9E171D15_0K03DTH
0,22	32	22,8	16,5	27,7	1,0	1350	297	8,0	6,6	K9E171D22_0K03DTH
0,22	44	18,1	13,3	21,3	1,0	880	194	7,9	10,4	K9E171D22_0K04DTH
0,33	44	21,8	15,6	26,8	1,0	880	290	8,0	6,9	K9E171D33_0K04DTH
0,47	44	25,8	19,5	30,7	1,2	880	414	12	4,7	K9E171D68_2K04DTH
0,68	44	30,8	24,4	35,6	1,2	880	598	12	4,5	K9E1711D0_2K04DTH
1,0	44	37,2	30,6	41,8	1,2	880	880	12	3,8	K9E1711D0_2K04DTH
1,0	57	30,9	24,4	35,6	1,2	610	610	12	3,6	K9E1711D0_2K05DTH
1,2	57	33,8	27,2	38,4	1,2	610	732	12	3,5	K9E1711D2_2K05DTH
1,5	57	37,6			1,2	610	915	12	3,5	K9E1711D5R2K05419
2,0	57	43,3			1,2	610	1220	12	3,4	K9E1712D0R2K05446

Un 1700VDC
Urms 575VAC
Us 2550V

Cap μF	L	Lenght (mm)				du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,022	32		5,4	11,8	0,8	1750	39	2,3	68,7	K9E20133ME8K03AC8
0,033	32		7,0	13,4	0,8	1750	58	3,0	52,7	K9E20133ME8K03CI4
0,047	32		8,1	16,1	0,8	1750	82	3,9	34,8	K9E20147ME8K03DL1
0,047	44	10,4	6,4	12,8	0,8	1000	47	3,1	45,8	K9E20147M_8K04DTH
0,068	32	15,0	10,3	18,3	1,0	1750	119	5,1	23,5	K9E20168M_0K03DTH
0,068	44	12,1	8,1	14,5	0,8	1000	68	4,0	16,3	K9E20168M_8K04DTH
0,10	32	17,8	13,1	21,1	1,0	1750	175	6,7	13,8	K9E201D10_0K03DTH
0,10	44	14,2	9,6	17,6	1,0	1000	100	5,3	12,4	K9E201D10_0K04DTH
0,15	44	17,1	12,4	20,4	1,0	1000	150	7,0	8,6	K9E201D15_0K04DTH
0,22	44	20,4	15,6	23,6	1,0	1000	220	8,0	8,5	K9E201D22_0K04DTH
0,33	44	24,7	18,4	29,6	1,2	1000	330	12	5,2	K9E201D33_2K04DTH
0,47	44	29,9	23,4	34,6	1,2	1000	470	12	5,0	K9E201D47_2K04DTH
0,56	44	32,4	25,9	37,1	1,2	1000	560	12	4,9	K9E201D56_2K04DTH
0,56	57	26,5	20,1	31,3	1,2	640	358	12	5,5	K9E201D56_2K05DTH
0,68	57	29,1	22,7	33,9	1,2	640	435	12	5,1	K9E201D68_2K05DTH
1,0	57	35,1	28,6	39,8	1,2	640	640	12	4,8	K9E2011D0_2K05DTH
1,2	57	38,3			1,2	640	768	12	4,8	K9E2011D2R2K05383
1,5	57	42,8			1,2	640	960	12	4,6	K9E2011D5R2K05428

Un 2000VDC
Urms 630VAC
Us 3000V

K9E TYPE STANDARD RATINGS

Cap μF	L	Lenght (mm)				du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,022	32		6,9	13,3	0,8	2150	47	2,6	40,5	K9E25122ME8K03BI3
0,033	32		8,2	16,2	0,8	2150	71	3,5	36,9	K9E25133ME8K03DL1
0,047	32	15,0	10,3	18,3	0,8	2150	101	4,5	23,8	K9E25147M_8K03DTH
0,068	32	17,3	13,0	21,0	1,0	2150	146	5,9	21,5	K9E25168M_0K03DTH
0,10	32	21,3	15,0	26,2	1,0	2150	215	7,8	12,5	K9E251D10_0K03DTH
0,10	44	16,9	12,1	20,1	1,0	1350	135	5,9	17,7	K9E251D10_0K04DTH
0,15	44	20,4	15,6	23,6	1,0	1350	203	7,9	11,6	K9E251D15_0K04DTH
0,22	44	24,4	18,1	29,3	1,2	1350	297	10,7	10,3	K9E251D22_2K04DTH
0,33	44	29,6	23,2	34,4	1,2	1350	446	12	10,0	K9E251D33_2K04DTH
0,33	57	24,7	18,3	29,5	1,2	880	290	12	6,8	K9E251D33_2K05DTH
0,47	57	29,2	22,8	34,0	1,2	880	414	12	6,5	K9E251D47_2K05DTH
0,68	57	34,9	28,4	39,6	1,2	880	598	12	6,0	K9E251D68_2K05DTH
0,82	57	38,3			1,2	880	722	12	5,6	K9E251D82R2K05DTH
1,0	57	42,2			1,2	880	880	12	5,4	K9E2511D0R2K05DTH

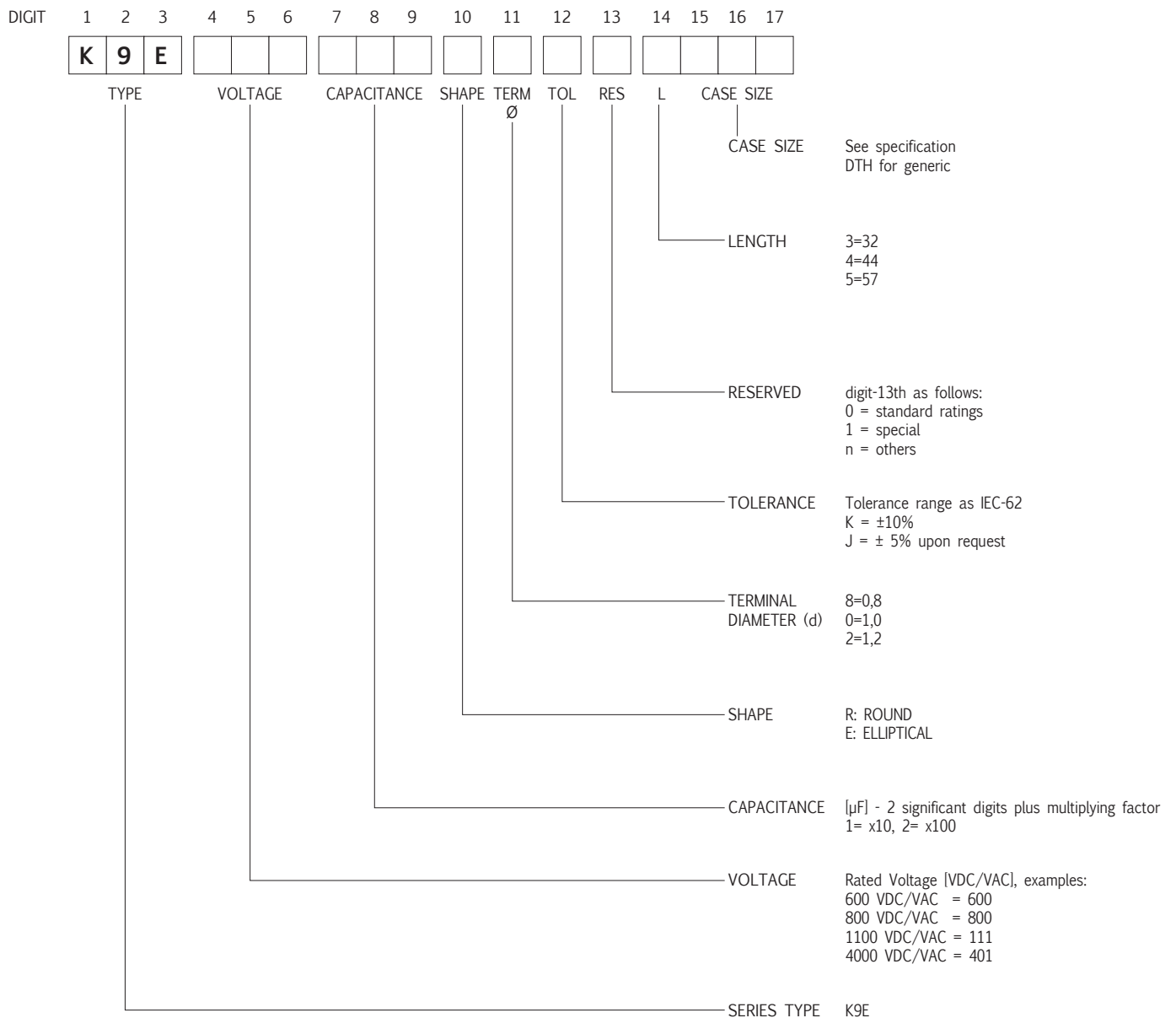
Un 2500VDC
Urms 700VAC
Us 3750V

Cap μF	L	Lenght (mm)				du/dt V/μs	Ipeak (A)	IMax@60°C @10KHz (A)	ESR @10KHz (mΩ)	PART NUMBER
		D round	T elliptical	H	d					
0,0068	32		5,1	9,9	0,8	2750	19	1,4	104,0	K9E3016M8E8K03BI3
0,010	32		5,9	12,3	0,8	2750	28	1,9	79,4	K9E30110ME8K03DL1
0,015	32		7,1	13,5	0,8	2750	41	2,5	75,5	K9E30115ME8K03DTH
0,022	32	13,1	8,4	16,4	0,8	2750	61	3,1	63,9	K9E30122M_8K03DTH
0,033	32	15,7	11,0	19,0	1,0	2750	91	4,1	33,9	K9E30133M_0K03DTH
0,047	32	18,4	13,7	21,7	1,0	2750	129	5,4	25,7	K9E30147M_0K03DTH
0,047	44	14,7	10,0	18,0	1,0	1600	75	4,3	37,4	K9E30147M_0K04DTH
0,068	44	17,3	12,6	20,6	1,0	1600	109	5,6	25,1	K9E30168M_0K04DTH
0,10	44	20,7	14,5	25,7	1,2	1600	160	7,4	17,4	K9E301D10_2K04DTH
0,15	44	25,1	18,8	30,0	1,2	1600	240	10,0	16,8	K9E301D15_2K04DTH
0,22	44	30,2	23,7	34,9	1,2	1600	352	12	17,4	K9E301D22_2K04DTH
0,22	57	25,1	18,8	30,0	1,2	990	218	11,3	12,6	K9E301D22_2K05DTH
0,33	57	30,5	24,1	35,3	1,2	990	327	12	8,0	K9E301D33_2K05DTH
0,39	57	33,1	26,6	37,8	1,2	990	386	12	7,4	K9E301D39_2K05DTH
0,47	57	36,3			1,2	990	465	12	5,7	K9E301D47R2K05363
0,68	57	43,4			1,2	990	673	12	5,5	K9E301D68R2K05434

Un 3000VDC
Urms 750VAC
Us 4500V

PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits





Kendeil™

Film Capacitors

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