

- Surge-proof capacitor in aluminium can with insulation sleeve.
- Poles brought out to heavy duty screw terminals.
- To be mounted with ring clips or with threaded stud.
- Very high CV for unit volume with low ESR.
- High ripple current.
- Excellent electrical data in small dimensions case size.

**APPLICATIONS**

Designed for professional power electronics.  
Switch mode power supplies, converters, filtering devices.

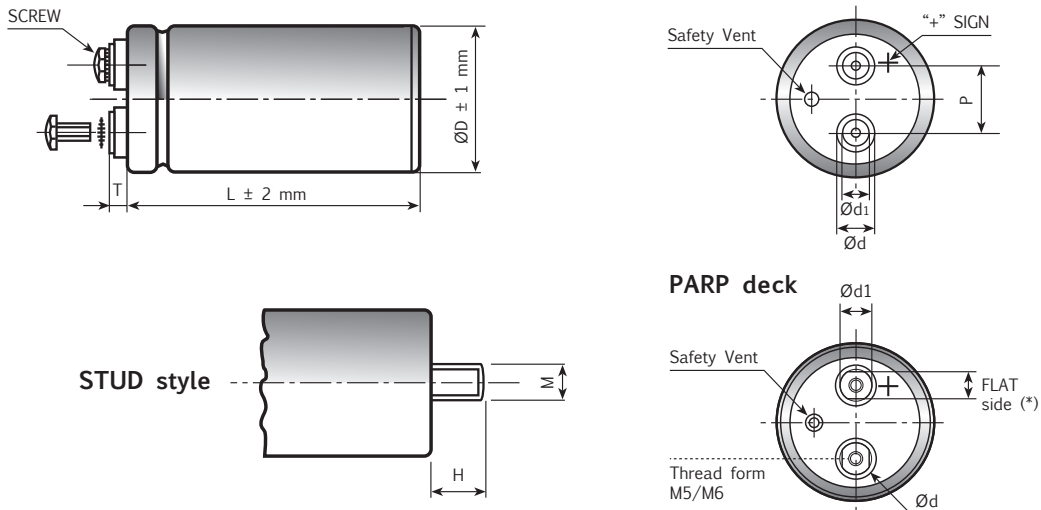


Diagram of dimensions (unit=mm) - Insert and screw threads: Metric (mm), UNF (inches)

ØD	d ±0.3	d1 ±0.3	P ±0.5	T ±2.0	STUD		INSERT	SCREW	INSERT STYLE CODE
					M	H			
35	11.6	7.9	12.7	6.5	M8	12	M5	5MA x 9.5	0
51	18.2	13	22.2	5	M12	16	M5	5MA x 9.5	H
63	18.2	13	28.5	5	M12	16	M5	5MA x 9.5	H
76	18.2	13	31.8	4.5	M12	16	M5	5MA x 9.5	H
76	18.2	13	31.8	6.5	M12	16	M5 long	5MA x 9.5	L
76	23.2	17.7	31.8	5	M12	16	M6	6MA x 10	6
90	23.2	17.7	31.8	5	M12	16	M6	6MA x 10	H
51	13	13(10)*	22.2	5	M12	16	PARP M5	5MA x 9.5	K
63	13	13(10)*	28.5	5	M12	16	PARP M5	5MA x 9.5	B
63	19	15(13)*	28.5	6	M12	16	PARP M5	5MA x 9.5	K
76	19	15(13)*	31.8	6	M12	16	PARP M5	5MA x 9.5	K
76	19	15(13)*	31.8	6	M12	16	PARP M6	6MA x 10	Q
90	19	15(13)*	31.8	6	M12	16	PARP M6	6MA x 10	Q
35	11.6	7.9	12.7	6.5	M12	16	UNF 10-32 High Post	10-32 x 3/8"	U
63	17.3	17.3	28.5	2.5	M12	16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	W
63	17.3	17.3	28.5	6	M12	16	UNF 1/4-28 High Post	1/4-28 x 1/2"	R
63	7.9	7.9	28.5	2	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	Z
63	12	7.9	28.5	6.5	M12	16	UNF 10-32 High Post	10-32 x 3/8"	U
76	17.3	17.3	31.8	2.5	M12	16	UNF 1/4-28 Low Post	1/4-28 x 3/8"	W
76	17.3	17.3	31.8	6	M12	16	UNF 1/4-28 High Post	1/4-28 x 1/2"	R
76	7.9	7.9	31.8	2	M12	16	UNF 10-32 Low Post	10-32 x 1/4"	Z
76	12	7.9	31.8	6.5	M12	16	UNF 10-32 High Post	10-32 x 3/8"	U

Note: (\*) quote on the PARP deck of the flat side (PARP = Protection Against Reverse Polarity).

## K01 TYPE SPECIFICATIONS

<b>Temperature Range</b>	Operating: -40°C +85°C Storage : Preferably below +25°C, not exceeding +40°C	[Environmental classification 40/85/56 IEC-68]																																				
<b>Rated Voltage Range (V<sub>r</sub>)</b>	from 16V to 500V DC																																					
<b>Surge Voltage (V<sub>p</sub>)</b>	V <sub>p</sub> = 1.05 V <sub>r</sub> (V <sub>r</sub> > 450V DC) V <sub>p</sub> = 1.15 V <sub>r</sub> (V <sub>r</sub> ≤ 250V DC) V <sub>p</sub> = 1.10 V <sub>r</sub> (V <sub>r</sub> > 250V DC)																																					
<b>Rated Capacitance Range</b>	from 220 μF to 1500000 μF																																					
<b>Capacitance Tolerance</b>	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]																																					
<b>Leakage Current (I<sub>L</sub>)</b> (mA, 5 min, 20°C)	max I <sub>L</sub> = 0.006 C <sub>r</sub> V <sub>r</sub> + 4 μA At 85°C max I <sub>L</sub> = 0.04 C <sub>r</sub> V <sub>r</sub> μA	Kendeil product limit: I <sub>L</sub> = 0.003 C <sub>r</sub> V <sub>r</sub>																																				
<b>Ripple current (I<sub>r</sub>)</b>	Refer to table at 85°C and 100Hz. For different temperature and frequency multiplier must be used as follows:																																					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">FREQUENCY</td> <td style="text-align: center;">50Hz</td> <td style="text-align: center;">100Hz</td> <td style="text-align: center;">500 Hz</td> <td style="text-align: center;">1000Hz</td> <td style="text-align: center;">&gt;10kHz</td> </tr> <tr> <td style="text-align: left;">MULTIPLIER</td> <td style="text-align: center;">0.8</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.2</td> <td style="text-align: center;">1.3</td> <td style="text-align: center;">1.5</td> </tr> <tr> <td style="text-align: left;">AMBIENT TEMP</td> <td style="text-align: center;">35°C</td> <td style="text-align: center;">45°C</td> <td style="text-align: center;">55°C</td> <td style="text-align: center;">65°C</td> <td style="text-align: center;">75°C</td> <td style="text-align: center;">85°C</td> <td style="text-align: center;">95°C</td> </tr> <tr> <td style="text-align: left;">MULTIPLIER</td> <td style="text-align: center;">2.2</td> <td style="text-align: center;">2.1</td> <td style="text-align: center;">1.8</td> <td style="text-align: center;">1.6</td> <td style="text-align: center;">1.4</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">0.5</td> </tr> <tr> <td style="text-align: left;">Maximum internal temperature</td> <td colspan="7" style="text-align: center;">98°C</td> </tr> </table>		FREQUENCY	50Hz	100Hz	500 Hz	1000Hz	>10kHz	MULTIPLIER	0.8	1.0	1.2	1.3	1.5	AMBIENT TEMP	35°C	45°C	55°C	65°C	75°C	85°C	95°C	MULTIPLIER	2.2	2.1	1.8	1.6	1.4	1.0	0.5	Maximum internal temperature	98°C						
FREQUENCY	50Hz	100Hz	500 Hz	1000Hz	>10kHz																																	
MULTIPLIER	0.8	1.0	1.2	1.3	1.5																																	
AMBIENT TEMP	35°C	45°C	55°C	65°C	75°C	85°C	95°C																															
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Maximum internal temperature	98°C																																					
	Due to the current load capability of the contact elements, the following limits must not be exceeded:																																					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">CAPACITOR DIAMETER</td> <td style="text-align: center;">35mm</td> <td style="text-align: center;">51mm</td> <td style="text-align: center;">63mm</td> <td style="text-align: center;">76mm</td> <td style="text-align: center;">90mm</td> </tr> <tr> <td style="text-align: left;">Maximum current</td> <td style="text-align: center;">20A</td> <td style="text-align: center;">30A</td> <td style="text-align: center;">40A</td> <td style="text-align: center;">50A</td> <td style="text-align: center;">70A</td> </tr> </table>		CAPACITOR DIAMETER	35mm	51mm	63mm	76mm	90mm	Maximum current	20A	30A	40A	50A	70A																								
CAPACITOR DIAMETER	35mm	51mm	63mm	76mm	90mm																																	
Maximum current	20A	30A	40A	50A	70A																																	
<b>Insulation Resistance</b>	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.																																					
<b>Vibration Resistance</b>	Frequency range: 10 Hz to 55 Hz Capacitor length ≤ 143 : max acceleration 0.75mm or 10g for 3x2 h Capacitor length > 143 : max acceleration 0.35mm or 5g for 3x0.5 h																																					
<b>Withstand voltage</b> (between terminals bundled and plate)	2500 VAC for 1 min																																					
<b>Life test</b>	After 2,000 hours application of rated voltage at 85°C capacitors meet characteristics aside	Cap change ≤ 10% tan δ ≤ 130% Leakage current (I <sub>L</sub> ) < initial limit Impedance (Z) ≤ 130%																																				
<b>Shelf life</b>	After leaving capacitors under no load for 500 hours at 85°C, when restored at 20°C meet specifications aside	Cap change ≤ ±15% tan δ ≤ 150% Leakage current (I <sub>L</sub> ) < initial limit																																				
<b>Useful life</b> (V <sub>n</sub> , Temp rated I ripple applied)	> 200000 h at 40°C > 12000 h at 85°C for V <sub>r</sub> ≤ 100V and for V <sub>r</sub> ≥ 500V > 15000 h at 85°C for 100V < V <sub>r</sub> < 500V																																					
<b>Failure percentage</b> <b>Failure rate</b>	≤ 1% (during useful life) ≤ 25 fit (25 10 <sup>-9</sup> /h) (V <sub>r</sub> ≤ 160V DC) ≤ 33 fit (33 10 <sup>-9</sup> /h) (V <sub>r</sub> > 160V DC)																																					
<b>Self inductance</b>	Approx. 20 nH																																					
<b>Damp heat test</b> (V <sub>n</sub> applied, 2000 hours, 85% RH)	Stable electrical parameters in humidity ambient condition 85°C																																					
<b>Electrolyte</b>	All the capacitors of this series have self-extinguishing electrolyte in accordance with IEC EN 60695-11-10																																					
<b>Reference standards</b>	CECC 30.300 IEC 60384-4 LONG LIFE GRADE																																					

## K01 TYPE STANDARD RATINGS

**RATED  
VOLTAGE  
VDC**

**16V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
33000	35x79	0,4	15	13	10,2	K01016333_M0E079
47000	35x79	0,55	13	12	10,8	K01016473_M0E079
47000	51x79	0,55	13	12	12,5	K01016473_M0G079
68000	51x79	0,6	12	11	15,7	K01016683_M0G079
100000	51x79	0,8	10	11	16,5	K01016104_M0G079
100000	51x105	0,8	10	10	18,7	K01016104_M0G105
150000	51x105	1,1	10	9	19,5	K01016154_M0G105
150000	63x105	1,1	10	9	21,5	K01016154_M0H105
220000	63x105	1,5	8	8	22,4	K01016224_M0H105
330000	63x105	1,9	8	8	23,3	K01016334_M0H105
330000	76x105	1,9	8	8	25	K01016334_M0J105
470000	76x105	1,9	5	5	28,5	K01016474_M0J105
470000	76x143	1,9	5	5	32	K01016474_M0J143
680000	76x143	2,5	4	4	32,5	K01016684_M0J143
1000000	76x143	2,5	3	3	34,5	K01016105_M0J143
1500000	90x220	3	3	3	48,7	K01016155_M0L220

**RATED  
VOLTAGE  
VDC**

**25V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
10000	35x60	0,25	27	21	5,9	K01025103_M0E060
15000	35x60	0,28	16	12	9,3	K01025153_M0E060
22000	35x60	0,3	17	15	10,2	K01025223_M0E060
22000	35x79	0,35	18	16	11,8	K01025223_M0E079
33000	35x60	0,38	16	15	12,5	K01025333_M0E060
33000	35x79	0,4	15	14	12,1	K01025333_M0E079
33000	51x79	0,4	15	14	13,3	K01025333_M0G079
47000	35x79	0,47	14	15	13	K01025473_M0E079
47000	51x79	0,5	12	10	15,7	K01025473_M0G079
56000	35x79	0,55	11	10	17,1	K01025563_M0E079
68000	51x79	0,6	10	9	16,4	K01025683_M0G079
68000	51x105	0,6	10	9	18,7	K01025683_M0G105
100000	51x79	0,7	10	9	18,5	K01025104_M0G079
100000	51x105	0,7	10	9	19,5	K01025104_M0G105
100000	63x105	0,7	10	9	21,5	K01025104_M0H105
120000	51x79	0,75	10	9	19,2	K01025124_M0G079
150000	51x105	0,8	10	9	20,9	K01025154_M0G105
150000	63x105	1	9	9	22	K01025154_M0H105
150000	76x105	1	9	9	23,5	K01025154_M0J105

## K01 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
220000	63x105	0,85	9	9	23,5	K01025224_M0H105
220000	76x105	1,5	9	9	24,2	K01025224_M0J105
220000	76x143	1,5	9	9	28,5	K01025224_M0J143
330000	76x105	1,5	9	9	27,8	K01025334_M0J105
330000	76x143	2	9	9	30,5	K01025334_M0J143
470000	76x143	2	9	9	33,4	K01025474_M0J143
470000	76x214	2	5	5	35,6	K01025474_M0J214
680000	76x214	2,2	5	5	35,8	K01025684_M0J214
1000000	90x220	2,5	5	4	38,3	K01025105_M0L220

**RATED  
VOLTAGE  
VDC**

**25V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
10000	35x60	0,2	18	12	6,5	K01040103_M0E060
15000	35x60	0,25	13	10	7,4	K01040153_M0E060
15000	35x79	0,25	13	10	8,6	K01040153_M0E079
22000	35x79	0,3	16	14	8,9	K01040223_M0E079
22000	51x79	0,3	16	14	10,4	K01040223_M0G079
33000	35x79	0,3	15	14	10,6	K01040333_M0E079
33000	51x79	0,35	15	13	13,5	K01040333_M0G079
47000	51x79	0,4	10	9	14,2	K01040473_M0G079
47000	51x105	0,4	10	9	15,1	K01040473_M0G105
47000	63x105	0,4	10	9	17,6	K01040473_M0H105
68000	51x79	0,4	14	13	14,4	K01040683_M0G079
68000	51x105	0,5	10	8	18,2	K01040683_M0G105
68000	63x105	0,5	10	8	19,5	K01040683_M0H105
82000	51x105	0,55	9	8	18,4	K01040823_M0G105
100000	63x105	0,6	9	8	21,2	K01040104_M0H105
150000	63x105	0,8	9	8	19,1	K01040154_M0H105
150000	76x105	0,9	9	8	25,7	K01040154_M0J105
220000	76x105	1	8	7	26,8	K01040224_M0J105
220000	76x143	1	6	6	31,5	K01040224_M0J143
330000	76x143	1,1	5	5	35,5	K01040334_M0J143
330000	76x214	1,2	5	5	38,5	K01040334_M0J214
470000	76x214	1,3	3	3	42	K01040474_M0J214
680000	90x220	1,3	3	3	45,6	K01040684_M0L220

**RATED  
VOLTAGE  
VDC**

**40V**

## K01 TYPE STANDARD RATINGS

**RATED  
VOLTAGE  
VDC**

**50V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
4700	35x60	0,2	33	30	5,6	K01050472_M0E060
6800	35x60	0,2	25	24	7	K01050682_M0E060
10000	35x60	0,2	21	20	10	K01050103_M0E060
12000	35x60	0,25	15	15	10,6	K01050123_M0E060
15000	35x79	0,25	17	15	11,3	K01050153_M0E079
22000	35x79	0,3	16	15	11,5	K01050223_M0E079
22000	51x79	0,3	16	13	13,1	K01050223_M0G079
33000	51x79	0,35	14	14	14,2	K01050333_M0G079
33000	51x105	0,35	15	13	16	K01050333_M0G105
47000	51x79	0,4	14	14	14,2	K01050473_M0G079
47000	51x105	0,4	12	10	16,2	K01050473_M0G105
47000	63x105	0,4	12	10	18,3	K01050473_M0H105
68000	51x105	0,5	12	10	18,2	K01050683_M0G105
68000	63x105	0,6	12	9	18	K01050683_M0H105
68000	76x105	0,6	12	9	22,1	K01050683_M0J105
100000	63x105	0,6	12	10	19,1	K01050104_M0H105
100000	76x105	0,9	8	8	23,8	K01050104_M0J105
100000	76x143	0,9	8	8	25,8	K01050104_M0J143
150000	76x105	1	6	6	30,5	K01050154_M0J105
150000	76x143	1	6	6	31,5	K01050154_M0J143
220000	76x143	1,2	5	5	40,3	K01050224_M0J143
330000	76x214	1,3	3	3	50,8	K01050334_M0J214
470000	90x220	1,3	2	3	70,8	K01050474_M0L220

**RATED  
VOLTAGE  
VDC**

**63V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
4700	35x60	0,15	29	25	6,2	K01063472_M0E060
6800	35x60	0,18	21	20	7	K01063682_M0E060
10000	35x60	0,2	19	18	8,5	K01063103_M0E060
10000	35x79	0,2	21	20	8,7	K01063103_M0E079
10000	51x79	0,2	18	16	10,1	K01063103_M0G079
15000	35x79	0,25	18	16	10	K01063153_M0E079
15000	51x79	0,25	15	13	11,1	K01063153_M0G079
22000	51x79	0,3	13	11	12,4	K01063223_M0G079
22000	51x105	0,3	13	11	14,6	K01063223_M0G105
33000	51x105	0,35	11	10	15,6	K01063333_M0G105
33000	51x79	0,35	14	14	14,2	K01063333_M0G079
33000	63x105	0,35	11	10	17,9	K01063333_M0H105

## K01 TYPE STANDARD RATINGS

**RATED  
VOLTAGE  
VDC**

**63V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
47000	51x105	0,45	10	9	15,8	K01063473_M0G105
47000	63x105	0,45	11	10	18,8	K01063473_M0H105
68000	76x105	0,5	11	10	25,7	K01063683_M0J105
100000	76x105	0,55	8	8	31,5	K01063104_M0J105
100000	76x143	0,55	8	8	34,5	K01063104_M0J143
150000	76x143	0,6	6	6	36,1	K01063154_M0J143
220000	76x214	0,7	5	5	38,2	K01063224_M0J214
330000	90x220	0,9	2	3	56,3	K01063334_M0L220

**RATED  
VOLTAGE  
VDC**

**75V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
4700	35x60	0,15	29	25	5,4	K01075472_M0E060
6800	35x60	0,2	22	21	6,7	K01075682_M0E060
6800	35x79	0,18	20	20	8,5	K01075682_M0E079
10000	35x79	0,25	19	18	9,2	K01075103_M0E079
10000	51x79	0,2	18	16	11	K01075103_M0G079
12000	35x79	0,25	19	18	9,7	K01075123_M0E079
15000	51x105	0,25	15	13	12,7	K01075153_M0G105
15000	51x79	0,25	12	11	15	K01075153_M0G079
22000	51x79	0,3	12	11	13,9	K01075223_M0G079
22000	51x105	0,3	12	11	15,2	K01075223_M0G105
22000	63x105	0,3	12	11	16,2	K01075223_M0H105
33000	63x105	0,35	11	10	16,8	K01075333_M0H105
33000	51x105	0,35	11	10	18	K01075333_M0G105
33000	76x105	0,35	11	10	18,5	K01075333_M0J105
47000	63x105	0,4	10	10	20	K01075473_M0H105
47000	76x105	0,45	10	10	20,1	K01075473_M0J105
47000	76x143	0,45	10	10	22,1	K01075473_M0J143
68000	63x105	0,6	10	10	18,7	K01075683_M0H105
68000	76x143	0,6	10	10	26	K01075683_M0J143
100000	76x105	0,6	8	8	24,8	K01075104_M0J105
100000	76x143	0,6	8	8	34,9	K01075104_M0J143
150000	76x143	0,7	5	5	38,8	K01075154_M0J143
220000	76x143	0,75	3	2	40,1	K01075224_M0J143
270000	90x220	0,76	3	3	48,6	K01075274_M0L220

## K01 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
1500	35x60	0,15	84	65	4,0	K01100152_M0E060
2200	35x60	0,15	57	47	5	K01100222_M0E060
3300	35x60	0,15	48	39	5,3	K01100332_M0E060
3300	35x79	0,15	48	39	6,8	K01100332_M0E079
4700	35x79	0,15	30	26	7,5	K01100472_M0E079
4700	51x79	0,15	30	26	10	K01100472_M0G079
6800	51x79	0,2	23	20	11,1	K01100682_M0G079
10000	51x79	0,2	16	14	11,9	K01100103_M0G079
10000	51x105	0,2	16	14	13,9	K01100103_M0G105
10000	63x105	0,2	16	14	14,5	K01100103_M0H105
15000	51x105	0,25	13	12	14,8	K01100153_M0G105
15000	63x105	0,25	13	12	17,5	K01100153_M0H105
22000	63x105	0,25	12	12	18,2	K01100223_M0H105
33000	76x105	0,25	10	10	23,1	K01100333_M0J105
47000	76x143	0,3	10	9	30,2	K01100473_M0J143
68000	76x143	0,3	8	8	36,5	K01100683_M0J143
68000	76x214	0,4	6	5	39,5	K01100683_M0J214
4700	35x60	0,15	30	26	6,6	K01100472_M0E060
6800	35x79	0,18	24	21	9,3	K01100682_M0E079
15000	51x79	0,25	15	14	13,5	K01100153_M0G079
22000	51x105	0,3	13	12	17,2	K01100223_M0G105
33000	63x105	0,3	13	13	18,6	K01100333_M0H105
47000	76x105	0,4	9	9	29,8	K01100473_M0J105
100000	76x214	0,4	5	5	46,4	K01100104_M0J214
150000	90x220	0,45	3	3	62,4	K01100154_M0L220

**RATED  
VOLTAGE  
VDC**

**100V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
680	35x60	0,1	128	102	3,2	K01160681_M0E060
820	35x60	0,12	113	88	3,5	K01160821_M0E060
1000	35x60	0,12	94	76	3,9	K01160102_M0E060
1000	35x79	0,1	98	90	4	K01160102_M0E079
1500	35x60	0,2	107	86	3,9	K01160152_M0E060
1500	35x79	0,12	72	70	5,3	K01160152_M0E079
1500	51x79	0,1	62	71	5,3	K01160152_M0G079
2200	35x79	0,19	70	66	5,1	K01160222_M0E079
2200	51x79	0,1	50	43	7	K01160222_M0G079
3300	51x79	0,14	41	36	6,6	K01160332_M0G079
3300	51x105	0,12	35	30	8,6	K01160332_M0G105
4700	51x79	0,14	40	35	8,3	K01160472_M0G079
4700	51x105	0,12	25	25	10,9	K01160472_M0G105

**RATED  
VOLTAGE  
VDC**

**160V**

## K01 TYPE STANDARD RATINGS

**RATED  
VOLTAGE  
VDC**

**160V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
4700	63x105	0,12	25	25	11,9	K01160472_M0H105
6800	51x105	0,12	21	22	11,4	K01160682_M0G105
6800	63x105	0,12	20	22	13	K01160682_M0H105
10000	63x105	0,14	27	25	12,9	K01160103_M0H105
10000	76x105	0,15	13	12	17,4	K01160103_M0J105
10000	76x143	0,15	13	12	19,4	K01160103_M0J143
15000	76x105	0,3	16	14	16,9	K01160153_M0J105
15000	76x143	0,15	11	10	20,9	K01160153_M0J143
22000	76x143	0,2	10	10	26,4	K01160223_M0J143
33000	76x214	0,2	8	8	34,1	K01160333_M0J214
47000	90x220	0,3	5	5	30	K01160473_M0L220

**RATED  
VOLTAGE  
VDC**

**200V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
680	35x60	0,1	124	119	3,4	K01200681_M0E060
820	35x60	0,11	113	77	3,4	K01200821_M0E060
1000	35x79	0,1	86	88	3,5	K01200102_M0E079
1000	35x60	0,12	65	66	3,9	K01200102_M0E060
1500	35x60	0,2	106	85	3,7	K01200152_M0E060
1500	35x79	0,12	62	44	5,4	K01200152_M0E079
1500	51x79	0,1	60	63	5,8	K01200152_M0G079
2200	35x79	0,19	69	55	5,1	K01200222_M0E079
2200	51x105	0,1	40	37	7,2	K01200222_M0G105
2200	51x79	0,13	46	33	7,8	K01200222_M0G079
3300	51x105	0,12	32	30	9	K01200332_M0G105
3300	63x105	0,12	31	29	10,2	K01200332_M0H105
4700	51x79	0,24	41	35	8,3	K01200472_M0G079
4700	51x105	0,12	28	26	10,4	K01200472_M0G105
4700	63x105	0,12	27	25	11,1	K01200472_M0H105
5600	63x105	0,12	21	18	12,1	K01200562_M0H105
6800	63x105	0,12	20	16	13,9	K01200682_M0H105
6800	76x105	0,12	19	15	14,3	K01200682_M0J105
8200	76x105	0,12	16	14	14,8	K01200822_M0J105
10000	63x105	0,28	23	20	14,4	K01200103_M0H105
10000	76x105	0,15	13	12	15,8	K01200103_M0J105
10000	76x143	0,15	13	12	18,6	K01200103_M0J143
15000	76x105	0,3	16	14	19	K01200153_M0J105
15000	76x143	0,18	12	12	21,4	K01200153_M0J143
22000	76x143	0,18	9	9	28,9	K01200223_M0J143
33000	76x214	0,22	8	8	36,1	K01200333_M0J214
47000	90x220	0,29	5	5	35,4	K01200473_M0L220



## K01 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
470	35x60	0,1	211	200	2,8	K01250471_M0E060
680	35x60	0,11	125	94	3,4	K01250681_M0E060
680	35x79	0,1	127	121	3,5	K01250681_M0E079
1000	35x60	0,11	120	91	3,5	K01250102_M0E060
1000	35x79	0,1	86	88	4,1	K01250102_M0E079
1500	35x79	0,11	79	70	4	K01250152_M0E079
1500	51x79	0,1	64	56	5	K01250152_M0G079
2200	51x105	0,1	40	36	7,5	K01250222_M0G105
3300	51x105	0,12	31	26	9,8	K01250332_M0G105
3300	63x105	0,12	30	25	11	K01250332_M0H105
4700	51x105	0,11	30	26	10,5	K01250472_M0G105
4700	63x105	0,12	24	21	11,8	K01250472_M0H105
4700	76x105	0,12	20	18	13,2	K01250472_M0J105
5600	76x105	0,12	17	16	13,8	K01250562_M0J105
6800	63x105	0,15	20	19	14,1	K01250682_M0H105
6800	76x105	0,12	15	13	14,7	K01250682_M0J105
8200	76x143	0,12	14	13	16	K01250822_M0J105
10000	76x105	0,17	14	10	15,8	K01250103_M0J105
10000	76x143	0,13	13	12	19,7	K01250103_M0J143
15000	76x143	0,13	11	11	21,9	K01250153_M0J143
22000	76x214	0,14	10	9	34,2	K01250223_M0J214
27000	90x220	0,22	6	6	38,9	K01250273_M0L220

**RATED  
VOLTAGE  
VDC**

**250V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
470	35X60	0,1	170	136	3,3	K01350471_M0E060
680	35X79	0,1	108	95	4	K01350681_M0E079
1000	35x79	0,11	85	68	4,8	K01350102_M0E079
1000	51x79	0,1	79	62	5	K01350102_M0G079
1000	51x105	0,1	79	62	5,5	K01350102_M0G105
1500	51x79	0,11	60	53	6,3	K01350152_M0G079
1500	51x105	0,1	60	52	7,4	K01350152_M0G105
2200	51x79	0,11	46	42	8	K01350222_M0G079
2200	51x105	0,1	44	40	9	K01350222_M0G105
2200	63x105	0,1	37	34	9,5	K01350222_M0H105
3300	63x105	0,12	26	22	10,1	K01350332_M0H105
3300	76x105	0,12	26	22	12,8	K01350332_M0J105
4700	63x105	0,12	27	21	13,1	K01350472_M0H105
4700	76x105	0,12	17	16	14,5	K01350472_M0J105
4700	76x143	0,12	17	16	17,5	K01350472_M0J143

**RATED  
VOLTAGE  
VDC**

**350V**

## K01 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
5600	76x105	0,12	18	18	13,3	K01350562_M0J105
5600	76x143	0,12	17	16	18,5	K01350562_M0J143
6800	76x105	0,13	16	11	14	K01350682_M0J105
6800	76x143	0,12	16	15	19,2	K01350682_M0J143
8200	76x143	0,12	16	15	20,7	K01350822_M0J143
10000	76x143	0,12	15	15	23	K01350103_M0J143
10000	76x214	0,14	15	14	26,6	K01350103_M0J214
15000	76x214	0,15	14	14	31,7	K01350153_M0J214
22000	90x220	0,2	13	13	35,4	K01350223_M0L220

**RATED  
VOLTAGE  
VDC**

**350V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
220	35x60	0,1	350	288	2,1	K01400221_M0E060
330	35x60	0,1	290	273	2,8	K01400331_M0E060
470	35x60	0,1	160	149	3	K01400471_M0E060
470	35x79	0,1	165	155	3,5	K01400471_M0E079
680	35x79	0,11	142	104	3	K01400681_M0E079
680	51x79	0,1	120	115	4,7	K01400681_M0G079
680	51x105	0,1	124	120	5,1	K01400681_M0G105
1000	51x79	0,1	105	95	5,8	K01400102_M0G079
1000	51x105	0,1	110	85	6,3	K01400102_M0G105
1500	51x79	0,11	72	53	6,2	K01400152_M0G079
1500	51x105	0,1	65	55	7	K01400152_M0G105
1500	63x105	0,1	65	55	7,9	K01400152_M0H105
2200	51x105	0,1	50	47	8,3	K01400222_M0G105
2200	63x105	0,1	50	47	9	K01400222_M0H105
2200	76x105	0,1	50	47	10,7	K01400222_M0J105
3300	63x105	0,12	35	30	11	K01400332_M0H105
3300	76x105	0,12	35	30	13,1	K01400332_M0J105
3300	76x143	0,12	35	30	14,2	K01400332_M0J143
4700	76x105	0,15	30	29	14,9	K01400472_M0J105
4700	76x143	0,15	30	29	16,8	K01400472_M0J143
5600	76x143	0,15	26	25	19	K01400562_M0J143
6800	76x143	0,15	20	18	19,5	K01400682_M0J143
8200	76x143	0,15	22	20	19	K01400822_M0J143
10000	76x143	0,15	22	20	19	K01400103_M0J143
10000	76x214	0,15	20	19	26	K01400103_M0J214
15000	90x220	0,2	15	12	33,5	K01400153_M0L220

**RATED  
VOLTAGE  
VDC**

**400V**

## K01 TYPE STANDARD RATINGS

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
220	35X60	0,1	360	300	2	K01450221_M0E060
330	35X60	0,1	240	210	2,8	K01450331_M0E060
470	51x79	0,1	200	179	4	K01450471_M0G079
680	51X79	0,1	140	128	4,4	K01450681_M0G079
680	51x105	0,1	140	128	5	K01450681_M0G105
1000	51x79	0,1	100	88	4,8	K01450102_M0G079
1000	51x105	0,1	100	88	6,4	K01450102_M0G105
1500	51x79	0,15	70	57	5,5	K01450152_M0G079
1500	51X105	0,1	67	55	7,1	K01450152_M0G105
1500	63x105	0,1	67	55	8	K01450152_M0H105
2200	63x105	0,1	60	55	9	K01450222_M0H105
2200	76x105	0,1	60	47	11,2	K01450222_M0J105
2200	76x143	0,1	60	47	12,5	K01450222_M0J143
3300	76x105	0,12	35	30	11,2	K01450332_M0J105
3300	76x143	0,12	35	30	12,9	K01450332_M0J143
4700	76x105	0,15	28	25	10,1	K01450472_M0J105
4700	76x143	0,15	32	30	15	K01450472_M0J143
5600	76x143	0,15	26	25	19	K01450562_M0J143
6800	76x143	0,15	23	22	19	K01450682_M0J143
8200	76x143	0,15	22	20	19	K01450822_M0J143
10000	76x143	0,2	22	20	19	K01450103_M0J143
10000	76x214	0,2	20	19	23,1	K01450103_M0J214
12000	76x214	0,2	15	12	23,8	K01450123_M0J214
15000	90x220	0,2	14	12	32,6	K01450153_M0L220

**RATED  
VOLTAGE  
VDC**

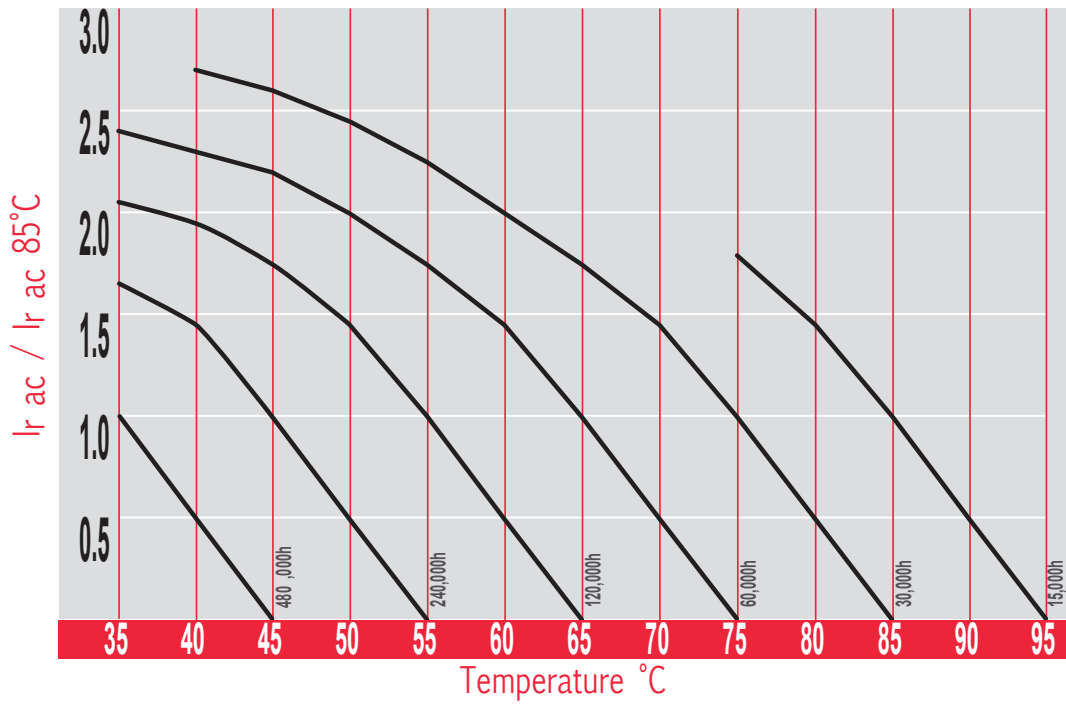
**450V**

Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER stud and insert style excluded
1000	51x105	0,15	125	114	4	K01500102_M0G105
1500	51x105	0,15	64	58	5,2	K01500152_M0G105
1500	63x105	0,15	81	67	5,2	K01500152_M0H105
2200	76x105	0,15	62	61	7,4	K01500222_M0J105
2200	76x143	0,15	55	54	8,2	K01500222_M0J143
3300	76x105	0,15	31	28	9,1	K01500332_M0J105
3300	76x143	0,15	39	37	10,3	K01500332_M0J143
4700	76x143	0,15	30	29	11,6	K01500472_M0J143
5600	76x214	0,15	26	22	19,8	K01500562_M0J214
6800	76x214	0,15	24	22	20,2	K01500682_M0J214

**RATED  
VOLTAGE  
VDC**

**500V**

## USEFUL LIFE K01



The graphs shows a typical trend of the standard capacitor load life. For a more accurate calculation of the load life for a specific capacitor, please use our calculator on the website [www.kendeil.com](http://www.kendeil.com) or enquiry our technical service.