

K02 TYPE -40°C +105°C 5000H

RoHS Compliant

- 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 and impedance.
- High ripple current capability. Extended temperature range.
- High level reliability with outstanding high frequency characteristics.

APPLICATIONS

High professional power supplies.

Switch power supplies, power converters, filtering devices, motor drive.

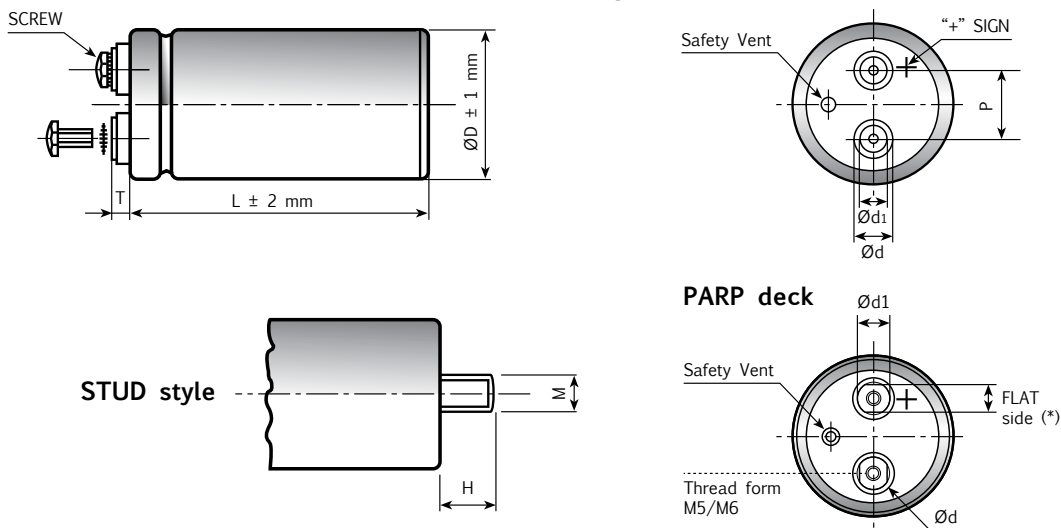


Diagram of dimensions (unit=mm) - Insert and screw threads: Metric (mm), UNF (inches)

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).

K02 TYPE SPECIFICATIONS

Temperature Range	Operating: -40°C +105°C Storage : Preferably below +25°C, not exceeding +40°C	[Environmental classification 40/105/56 IEC-68]																																																							
Rated Voltage Range (V_r)	from 16V to 500V DC																																																								
Surge Voltage (V_p)	V _p = 1.15 V _r (V _r ≤ 250V DC) V _p = 1.10 V _r (V _r > 250V DC)																																																								
Rated Capacitance Range	from 100 µF to 470,000 µF																																																								
Capacitance Tolerance	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]																																																								
Leakage Current (I_L) (mA, 5 min, 20°C)	max I _L = 0.003 C _r V _r + 4 µA At 85°C max I _L = 0.02 C _r V _r µA																																																								
Ripple current (I_r)	Refer to table at 105°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>50Hz</td> <td>100Hz</td> <td>500 Hz</td> <td>1000Hz</td> <td>>10kHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: left;">MULTIPLIER</td> <td>0.8</td> <td>1.0</td> <td>1.2</td> <td>1.3</td> <td>1.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: left;">AMBIENT TEMP</td> <td>35°C</td> <td>45°C</td> <td>55°C</td> <td>65°C</td> <td>75°C</td> <td>85°C</td> <td>95°C</td> <td>105°C</td> <td>110°C</td> <td></td> </tr> <tr> <td style="text-align: left;">MULTIPLIER</td> <td>3.0</td> <td>2.80</td> <td>2.60</td> <td>2.40</td> <td>2.20</td> <td>1.80</td> <td>1.5</td> <td>1.0</td> <td>0.5</td> <td></td> </tr> <tr> <td style="text-align: left;">Maximum internal temperature</td> <td colspan="10">108°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	105°C	110°C		MULTIPLIER	3.0	2.80	2.60	2.40	2.20	1.80	1.5	1.0	0.5		Maximum internal temperature	108°C									
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MULTIPLIER	3.0	2.80	2.60	2.40	2.20	1.80	1.5	1.0	0.5																																																
Maximum internal temperature	108°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>35mm</td> <td>51mm</td> <td>63mm</td> <td>76mm</td> <td>90mm</td> </tr> <tr> <td style="text-align: left;">Maximum current</td> <td>20A</td> <td>30A</td> <td>40A</td> <td>50A</td> <td>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																																																				
Insulation Resistance	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.																																																								
Vibration Resistance	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																																																								
Withstand voltage (between terminals bundled and plate)	2500 VAC for 1 min																																																								
Life test	After 2,000 hours application of rated voltage at 105°C capacitors meet characteristics aside	Cap change ≤ 10% tan δ ≤ 130% Leakage current (I _L) < initial limit Impedance (Z) ≤ 130%																																																							
Shelf life	After leaving capacitors under no load for 500 hours at 105°C when restored at 20°C meet specifications aside	Cap change ≤ ±15% tan δ ≤ 150% Leakage current (I _L) < initial limit																																																							
Useful life (V _n , Temp rated I ripple applied)	250000 h at 40°C 5000 h at 105°C																																																								
Failure percentage Failure rate	≤ 1% (during useful life) ≤ 30 fit (30 10 ⁻⁹ /h) (V _r ≤ 160V DC) ≤ 40 fit (40 10 ⁻⁹ /h) (V _r > 160V DC)																																																								
Self inductance	Approx. 20 nH																																																								
Damp heat test (V _n applied, 2000 hours, 85% RH)	Stable electrical parameters in humidity ambient condition 85°C																																																								
Electrolyte	All the capacitors of this series have self-extinguishing electrolyte in accordance with IEC EN 60695-11-10																																																								
Reference standards	CECC 30.300 IEC 60384-4 LONG LIFE GRADE																																																								

K02 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 105°C	PART NUMBER stud and insert style excluded
10000	35x60	0,25	25	24	3,3	K02016103_M0E060
15000	35x60	0,3	16	16	3,5	K02016153_M0E060
22000	35x60	0,35	12	12	4,4	K02016223_M0E060
33000	35x60	0,4	12	12	4,6	K02016333_M0E060
47000	35x79	0,55	9	10	7,5	K02016473_M0E079
68000	51x79	0,6	8	8	11,9	K02016683_M0G079
82000	51x79	0,7	8	8	12,1	K02016823_M0G079
100000	51x79	0,8	8	8	12,2	K02016104_M0G079
100000	51x105	0,8	8	8	12,3	K02016104_M0G105
150000	63x105	1,1	7	7	15,4	K02016154_M0H105
220000	76x105	1,5	7	7	18,8	K02016224_M0J105
330000	76x105	1,9	7	7	19,7	K02016334_M0J105
470000	76x143	2	6	6	22,5	K02016474_M0J143
1000000	90x220	2,6	3	3	29,4	K02016105_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 105°C	PART NUMBER stud and insert style excluded
10000	35x60	0,2	23	18	3,8	K02025103_M0E060
15000	35x60	0,25	16	12	4,8	K02025153_M0E060
22000	35x60	0,3	12	12	7	K02025223_M0E060
33000	51x79	0,35	10	10	8,9	K02025333_M0G079
47000	51x79	0,4	9	9	11,6	K02025473_M0G079
68000	51x79	0,5	8	8	12	K02025683_M0G079
68000	51x105	0,5	8	8	13	K02025683_M0G105
100000	63x105	0,6	8	8	15,8	K02025104_M0H105
150000	76x105	0,9	7	7	18,3	K02025154_M0J105
220000	76x143	1,3	7	7	21,6	K02025224_M0J143
330000	76x143	2	7	7	23,8	K02025334_M0J143
680000	90x220	3	3	3	38,1	K02025684_M0L220

K02 TYPE STANDARD RATINGS

**RATED
VOLTAGE
VDC**

40V

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 105°C	PART NUMBER stud and insert style excluded
4700	35x60	0,2	31	29	3,3	K02040472_M0E060
6800	35x60	0,2	23	20	3,9	K02040682_M0E060
10000	35x60	0,2	16	12	4,4	K02040103_M0E060
10000	35x79	0,2	16	12	4,8	K02040103_M0E079
15000	35x79	0,2	12	10	5,4	K02040153_M0E079
22000	35x79	0,25	10	10	6,6	K02040223_M0E079
22000	51x79	0,25	10	10	8,9	K02040223_M0G079
33000	51x79	0,35	10	10	9,9	K02040333_M0G079
33000	51x105	0,35	10	10	11,2	K02040333_M0G105
47000	51x105	0,45	9	9	13,8	K02040473_M0G105
47000	63x105	0,45	9	9	14,5	K02040473_M0H105
68000	63x105	0,6	7	7	15	K02040683_M0H105
68000	76x105	0,6	7	7	15,9	K02040683_M0J105
100000	63x105	0,9	7	7	17,2	K02040104_M0H105
100000	76x105	0,9	7	7	19,1	K02040104_M0J105
100000	76x143	0,9	7	7	21	K02040104_M0J143
150000	76x105	1,3	7	7	18,9	K02040154_M0J105
150000	76x143	1,3	7	7	25,9	K02040154_M0J143
220000	76x143	1,5	5	5	25,7	K02040224_M0J143
470000	90x220	2	3	3	36,3	K02040474_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	Ir a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
2200	35x60	0,15	72	60	2,5	K02063222_M0E060
3300	35x60	0,15	48	39	3,5	K02063332_M0E060
4700	35x60	0,15	33	28	4,2	K02063472_M0E060
6800	35x60	0,18	18	13	5,2	K02063682_M0E060
6800	35x79	0,18	18	13	6,3	K02063682_M0E079
10000	35x79	0,20	15	11	7,6	K02063103_M0E079
10000	51x79	0,20	15	11	8,2	K02063103_M0G079
15000	51x79	0,25	15	13	8,9	K02063153_M0G079
15000	51x105	0,25	13	10	18	K02063153_M0G105
22000	51x79	0,30	11	10	9,5	K02063223_M0G079
22000	51x105	0,30	11	10	11,8	K02063223_M0G105
22000	63x105	0,30	11	10	13,5	K02063223_M0H105
33000	51x105	0,35	11	10	11,1	K02063333_M0G105
33000	63x105	0,35	11	10	14,8	K02063333_M0H105
33000	76x105	0,35	11	8	16,6	K02063333_M0J105
47000	63x105	0,45	9	8	12,4	K02063473_M0H105
47000	76x105	0,45	9	8	17,7	K02063473_M0J105
47000	76x143	0,45	9	8	19	K02063473_M0J143

K02 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 105°C	PART NUMBER stud and insert style excluded
68000	63x105	0,70	8	8	18,6	K02063683_M0H105
68000	76x105	0,45	8	8	20,1	K02063683_M0J105
68000	76x143	0,70	8	8	22,8	K02063683_M0J143
100000	76x143	0,70	8	8	24,1	K02063104_M0J143
150000	76x143	0,70	5	5	25,2	K02063154_M0J143
220000	90x220	0,80	5	5	30	K02063224_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	Ir a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
1000	35x60	0,15	110	100	2,9	K02100102_M0E060
1500	35x60	0,15	80	73	3,2	K02100152_M0E060
2200	35x60	0,15	59	53	4,4	K02100222_M0E060
3300	35x60	0,15	33	32	3,9	K02100332_M0E060
3300	35x79	0,15	33	31	5,8	K02100332_M0E079
4700	51x79	0,15	25	22	7,2	K02100472_M0G079
6800	51x79	0,15	19	17	8,9	K02100682_M0G079
6800	51x105	0,15	19	17	8,9	K02100682_M0G105
8200	51x79	0,15	18	15	9,7	K02100822_M0G079
10000	51x79	0,15	17	15	10,1	K02100103_M0G079
10000	51x105	0,15	17	15	11	K02100103_M0G105
10000	63x105	0,15	17	15	12,5	K02100103_M0H105
15000	51x105	0,15	12	12	13,2	K02100153_M0G105
15000	63x105	0,15	12	12	15,1	K02100153_M0H105
22000	63x105	0,18	10	9	15,3	K02100223_M0H105
22000	76x105	0,18	10	9	16,5	K02100223_M0J105
33000	76x105	0,22	8	8	18,7	K02100333_M0J105
33000	76x143	0,22	8	8	20,9	K02100333_M0J143
47000	76x143	0,25	5	5	23,4	K02100473_M0J143
68000	90x220	0,25	3	3	32,8	K02100683_M0L220

**RATED
VOLTAGE
VDC**

100V

K02 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 105°C	PART NUMBER stud and insert style excluded
1000	35x79	0,11	105	90	3,3	K02160102_M0E079
1500	35x79	0,11	65	60	3,1	K02160152_M0E079
1500	51x79	0,11	65	60	4,1	K02160152_M0G079
2200	51x79	0,11	46	43	4,6	K02160222_M0G079
2200	51x105	0,11	46	43	4,8	K02160222_M0G105
3300	51x79	0,11	32	30	5,5	K02160332_M0G079
3300	63x105	0,11	32	30	6,8	K02160332_M0H105
4700	63x105	0,11	27	25	8,5	K02160472_M0H105
6800	63x105	0,13	23	20	8,8	K02160682_M0H105
6800	76x105	0,13	23	20	11,3	K02160682_M0J105
10000	76x105	0,14	22	20	14,2	K02160103_M0J105
10000	76x143	0,15	17	16	14,9	K02160103_M0J143
15000	76x143	0,2	16	12	17,2	K02160153_M0J143
22000	76x214	0,2	11	10	19	K02160223_M0J214
47000	90x220	0,3	6	5	24,9	K02160473_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 105°C	PART NUMBER stud and insert style excluded
680	35x60	0,11	133	98	2,5	K02200681_M0E060
820	35x60	0,11	97	72	3,2	K02200821_M0E060
1000	51x79	0,11	85	64	4,6	K02200102_M0G079
1500	51x79	0,11	65	58	4,4	K02200152_M0G079
1500	51x105	0,11	65	58	5,1	K02200152_M0G105
2200	51x79	0,11	60	53	5,1	K02200222_M0G079
2200	51x105	0,11	60	53	6,1	K02200222_M0G105
3300	51x105	0,11	40	35	6,8	K02200332_M0G105
3300	63x105	0,11	40	35	7,9	K02200332_M0H105
4700	63x105	0,11	25	23	8,7	K02200472_M0H105
5600	63x105	0,11	22	20	9,8	K02200562_M0H105
6800	63x105	0,11	18	16	8,7	K02200682_M0H105
6800	76x105	0,11	18	16	11,8	K02200682_M0J105
8200	76x105	0,11	17	15	12,8	K02200822_M0J105
10000	76x105	0,13	15	13	14,5	K02200103_M0J105
10000	76x143	0,15	13	12	16	K02200103_M0J143
15000	76x143	0,2	12	11	17,3	K02200153_M0J143
22000	76x214	0,2	11	10	18,9	K02200223_M0J214
33000	90x220	0,25	6	5	28,8	K02200333_M0L220

K02 TYPE STANDARD RATINGS

**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	I _r a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
470	35x60	0,11	211	193	2	K02250471_M0E060
680	35x60	0,11	130	98	2,1	K02250681_M0E060
680	35x79	0,11	130	98	2,2	K02250681_M0E079
820	35x60	0,11	120	90	2,4	K02250821_M0E060
820	35x79	0,11	120	91	2,8	K02250821_M0E079
1000	51x79	0,11	110	85	4,1	K02250102_M0G079
1500	51x79	0,11	74	65	4,5	K02250152_M0G079
1500	51x105	0,11	74	65	5,4	K02250152_M0G105
2200	51x105	0,11	41	39	6,8	K02250222_M0G105
3300	51x105	0,11	30	26	7	K02250332_M0G105
3300	63x105	0,11	30	26	8,2	K02250332_M0H105
4700	63x105	0,11	18	17	9,5	K02250472_M0H105
4700	76x105	0,11	18	17	11,9	K02250472_M0J105
5600	63x105	0,11	24	19	10,2	K02250562_M0H105
5600	76x105	0,11	17	16	13,2	K02250562_M0J105
6800	76x105	0,15	16	14	13,3	K02250682_M0J105
6800	76x143	0,15	15	14	14,3	K02250682_M0J143
8200	76x143	0,15	14	14	15,2	K02250822_M0J143
10000	76x143	0,2	14	13	16	K02250103_M0J143
15000	76x214	0,2	12	10	17,4	K02250153_M0J214
22000	76x214	0,22	11	10	20,2	K02250223_M0J214
33000	90x220	0,24	6	5	27,1	K02250333_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 _r a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
330	35x60	0,11	255	196	1,8	K02350331_M0E060
470	35x79	0,11	170	141	2,1	K02350471_M0E079
680	35x79	0,11	128	97	2,8	K01350681_M0E079
680	51x79	0,11	128	96	3,8	K02350681_M0G079
1000	51x79	0,11	110	85	4	K02350102_M0G079
1000	51x105	0,11	85	68	5	K02350102_M0G105
1500	51x79	0,11	74	66	5	K02350152_M0G079
1500	51x105	0,11	59	52	5,6	K02350152_M0G105
1500	63x105	0,11	59	52	6,4	K02350152_M0H105
2200	63x105	0,11	44	40	7,2	K02350222_M0H105
2200	76x105	0,11	44	40	8,1	K02350222_M0J105
3300	76x105	0,11	26	23	10,2	K02350332_M0J105
4700	76x105	0,11	18	17	11,1	K02350472_M0J105
4700	76x143	0,11	18	16	13,5	K02350472_M0J143

K02 TYPE STANDARD RATINGS

**RATED
VOLTAGE
VDC**

350V

Cap μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP $m\Omega$ 100 Hz 20°C	Z TYP $m\Omega$ 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
5600	76x105	0,12	18	16	11,5	K02350562_M0J105
5600	76x143	0,12	18	17	14,3	K02350562_M0J143
6800	76x143	0,15	16	15	15,1	K02350682_M0J143
8200	76x143	0,15	16	15	16,5	K02350822_M0J143
8200	76x143	0,15	16	15	17,8	K02350822_M0J143
10000	76x214	0,2	15	14	19,9	K02350103_M0J214
20000	90x220	0,2	10	10	26	K02350203_M0L220

**RATED
VOLTAGE
VDC**

400V

Cap μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP $m\Omega$ 100 Hz 20°C	Z TYP $m\Omega$ 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
220	35x60	0,11	350	280	1,4	K02400221_M0E060
330	35x60	0,11	250	210	2,2	K02400331_M0E060
470	51x79	0,11	170	150	2,8	K02400471_M0G079
680	51x79	0,11	110	100	3,2	K02400681_M0G079
820	51x79	0,11	108	82	3,2	K02400821_M0G079
1000	51x79	0,11	95	82	3,4	K02400102_M0G079
1000	51x105	0,11	95	82	4,1	K02400102_M0G105
1500	51x105	0,11	64	53	4,7	K02400152_M0G105
1500	63x105	0,11	64	53	5,8	K02400152_M0H105
2200	63x105	0,11	45	53	6	K02400222_M0H105
2200	76x105	0,11	45	39	7,3	K02400222_M0J105
3300	76x105	0,11	28	25	8,3	K02400332_M0J105
3300	76x143	0,11	28	25	11,1	K02400332_M0J143
4700	76x143	0,11	24	23	12,8	K02400472_M0J143
5600	76x143	0,12	21	17	12,9	K02400562_M0J143
6800	76x214	0,15	19	15	15,5	K02400682_M0J214
8200	76x214	0,15	18	16	18	K02400822_M0J214
10000	90x220	0,2	16	14	22,5	K02400103_M0L220
15000	90x220	0,22	12	10	23	K02400153_M0L220

K02 TYPE STANDARD RATINGS

**RATED
VOLTAGE
VDC**

450V

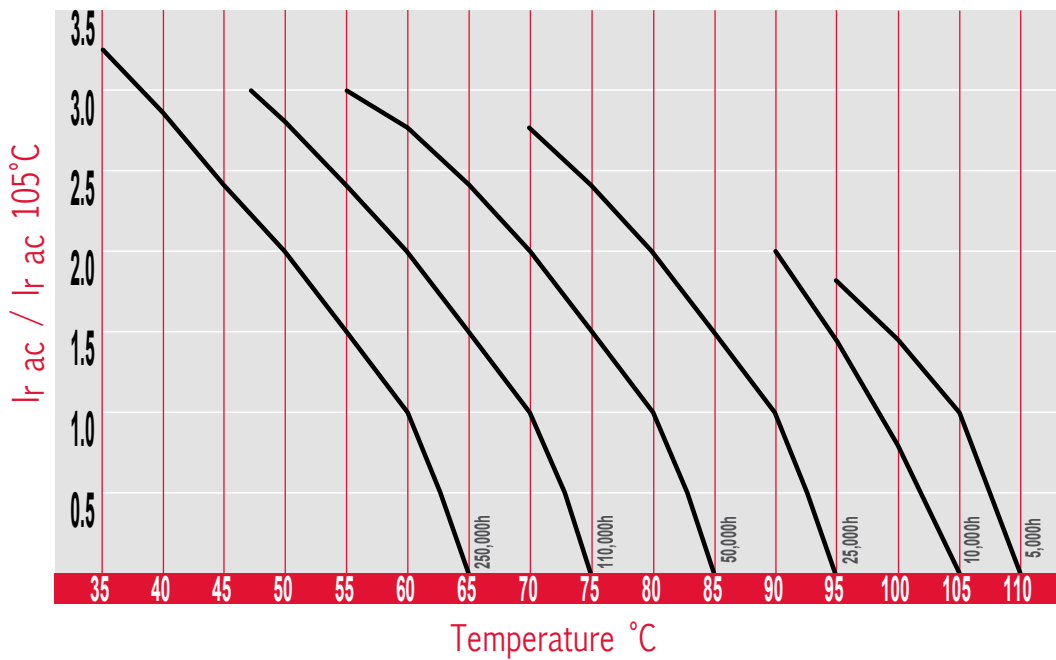
Cap µF	Ø x L mm	Tan δ MAX 100 Hz 20°C	ESR TYP mΩ 100 Hz 20°C	Z TYP mΩ 10 kHz 20°C	I _r a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
100	35x60	0,11	800	650	1,2	K02450101_M0E060
150	35x60	0,11	550	490	1,6	K02450151_M0E060
220	35x60	0,11	370	310	1,8	K02450221_M0E060
330	35x79	0,11	240	210	2,4	K02450331_M0E079
470	51x79	0,11	200	179	3	K02450471_M0G079
680	51x79	0,11	140	128	3,1	K02450681_M0G079
680	51x105	0,11	140	128	4,2	K02450681_M0G105
1000	51x105	0,11	100	88	4,4	K02450102_M0G105
1000	63x105	0,11	100	88	5,3	K02450102_M0H105
1500	63x105	0,11	63	57	5,7	K02450152_M0H105
1500	76x105	0,11	63	57	6,6	K02450152_M0J105
2200	76x105	0,11	48	38	7,6	K02450222_M0J105
2200	76x143	0,11	48	38	8,8	K02450222_M0J143
3300	76x143	0,15	35	30	10,4	K02450332_M0J143
4700	76x143	0,15	28	25	10,9	K02450472_M0J143
5600	76x143	0,15	21	17	11,2	K0245056_2_M0J143
6800	76x214	0,15	21	16	15,5	K02450682_M0J214
8200	76x214	0,15	18	16	19,2	K02450822_M0J214
10000	90x220	0,2	16	14	22,5	K02450103_M0L220
12000	90x220	0,2	15	13	23	K02450123_M0L220

**RATED
VOLTAGE
VDC**

500V

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 _r a.c. A max 100 Hz 105°C	PART NUMBER stud and insert style excluded
1000	51x105	0,11	100	88	4	K02500102_M0G105
1500	63x105	0,11	64	58	5,4	K02500152_M0H105
1500	63x105	0,11	64	58	5,4	K02500152_M0H105
1800	63x105	0,11	61	53	5,7	K02500182_M0H105
2200	76x105	0,11	60	47	6,9	K02500222_M0J105
2700	76x143	0,13	40	32	8,7	K02500272_M0J143
3300	76x143	0,15	37	31	9,4	K02500332_M0J143
3900	76x143	0,15	31	28	10,1	K02500392_M0J143
4700	76x143	0,15	29	26	10,3	K02500472_M0J143
5600	76x214	0,15	23	19	14,3	K02500562_M0J214
6800	76x214	0,15	21	16	14,8	K02500682_M0J214
6800	90x145	0,15	21	16	13,3	K02500682_M0L145
8200	90x220	0,15	19	15	18,6	K02500822_M0L220
10000	90x220	0,2	17	15	20	K02500103_M0L220

USEFUL LIFE K02

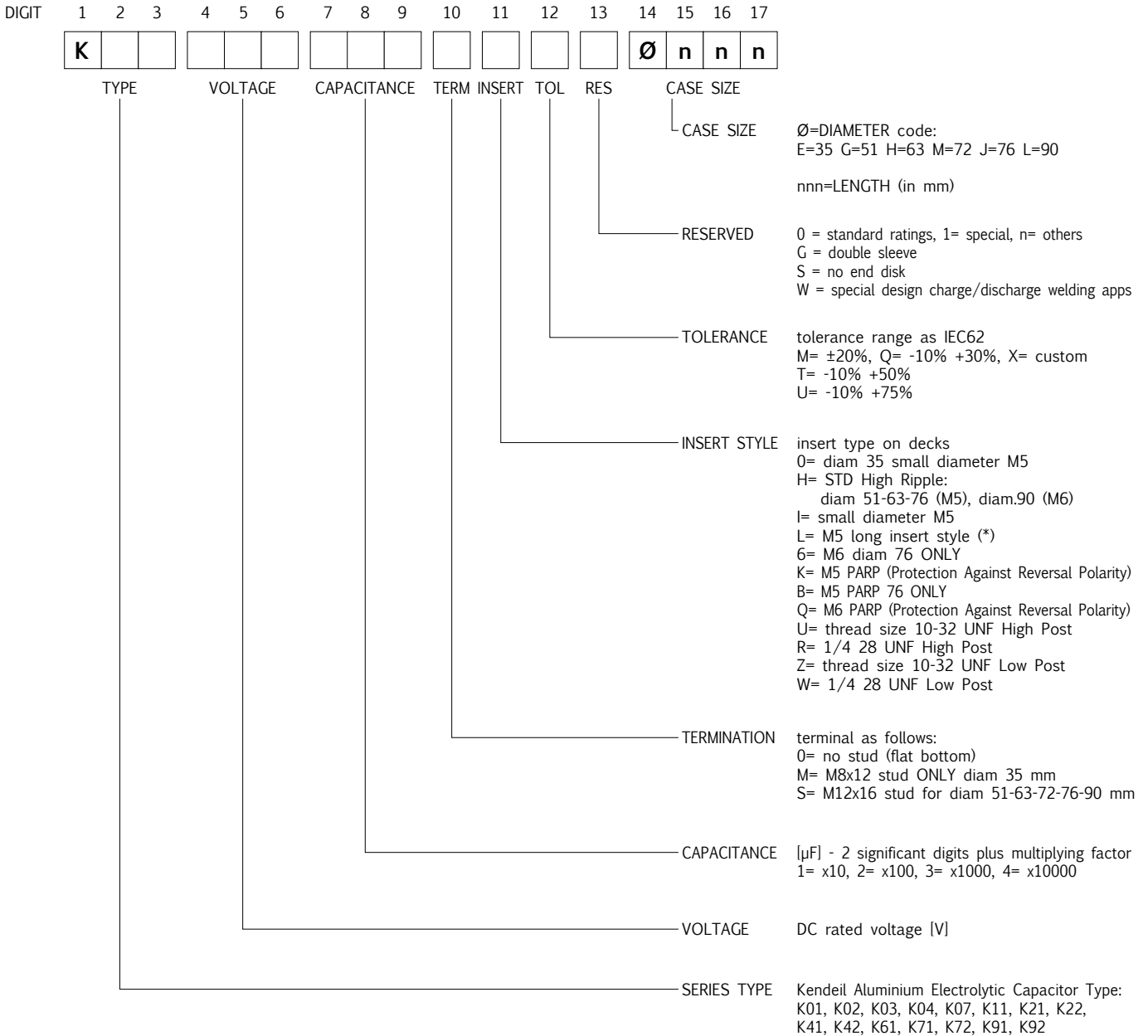


The graphs shows a typical trend of the standard capacitor load life. For a more accurate calculation of the load life for a specific capacitor, please use our calculator on the website www.kendeil.com or enquiry our technical service.

PLEASE TO CONTACT OUR TECHNICAL SERVICE FOR MORE INFORMATION OR SPEC-IN ANALYSIS.

PART NUMBER SYSTEM FOR SCREW TYPE 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.



EXAMPLES

K	0	1	1	0	0	2	2	3	0	H	M	0	H	1	0	5	K01 100V 22000µF, Hi ripple, -20%+20%, 63x105
K	0	1	0	6	3	2	2	3	S	H	Q	0	G	1	0	5	K01 63V 22000µF, stud M12x16, Hi rip. -10%+30%, 51x105
K	0	2	0	4	0	1	0	4	0	H	M	0	J	1	4	3	K02 40V 100000µF, Hi ripple, -20%+20%, 76x143

Specifications subject to change without notice

(*) Note for INSERT STYLE digit_11

M5 long insert style dedicated to not insulated bus bar (+2 mm height versus STD High Ripple code)