

K36 TYPE -40°C +85°C 100000H

- Long lifetime.
- High ripple current.
- Low ESR, Low Ls.
- Strong Self-healing.

APPLICATIONS

Inverters for wind power and solar power, electric vehicles and hybrid vehicles, SVG, Inverter, UPS, Welding machines.

GENERAL INFORMATION

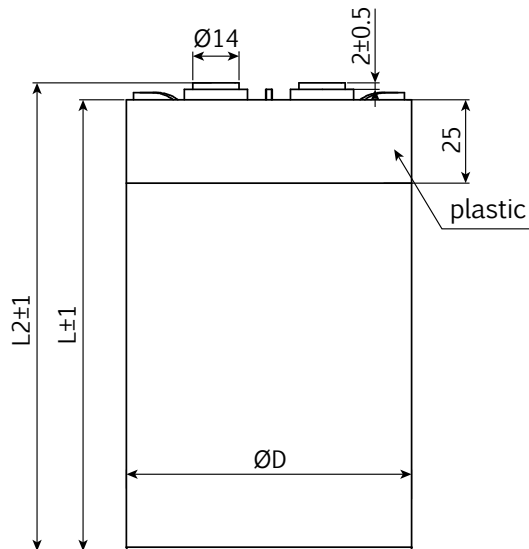
Reference	GB/T17702, IEC61071
IEC climatic	40/85/21 IEC 68-1
Storage temperature	-40°C to +85°C
Temperature range	-40°C to +85°C
Voltage range	500V to 4000V DC
Capacitance range	20μF to 5600μF
Max Tangent of loss angle	2×10^{-4}
Case	Aluminium case with or without stud M12
Maximum screw torque strength for insert	5Nm for M6, 6Nm for M8
Maximum screw torque strength for installation	10 Nm
Insulation resistance	IRxCap $\geq$ 5000S (at 20±5°C 100VDC, 60s)
Withstanding voltage between terminal and case	V _n ≤1500VDC, 3000VAC (60S, 50Hz, 20±5°C) V _n ≥1500VDC (2V _i +1000VAC, 60S, 50Hz, 20±5°C)
Withstanding voltage between terminals	2V _i +1000VAC, 1.5V _n (60S, 20±5°C)
Over voltage	1.1V _n 30% of on-load-dur 1.15V _n 30min/day 1.2V _n 5min/day 1.3V _n 1min/day
Tolerance (digit 12 th)	“K” = -10%, +10%, “J” = -5% +5% under request
Mounting	Horizontal – Vertical
Maximum ripple current	100A
Max Altitude	2000 m
Life Expectancy	100000 Hours at Nominal voltage 70°C
Failure Rate	100 FIT
End life criteria	+/-10% cap

Note when altitude exceeds 2000m:

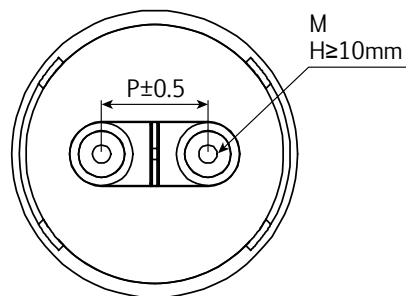
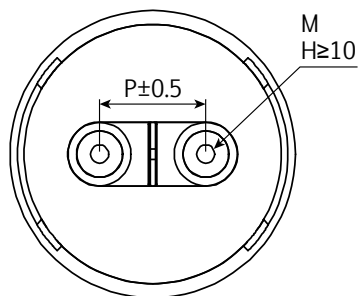
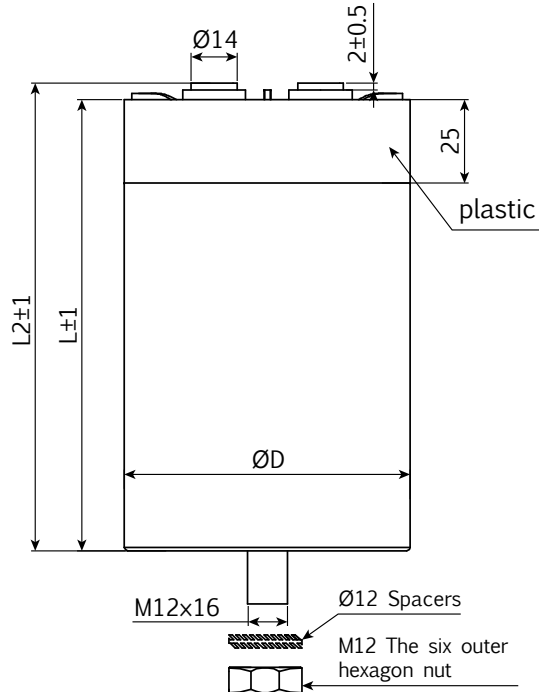
The effect of altitude on convection cooling and external insulation should be taken into consideration.

MECHANICAL SPECIFICATIONS

FLAT BOTTOM style



STUD style



M6 Screw

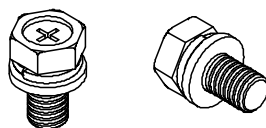


Diagram of dimensions (unit=mm)

K36 TYPE STANDARD RATINGS

Cap. μF	$\varnothing \times \text{L}$ mm	ESR $\text{m}\Omega$	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
480	76x95	1.5	45	1560	5.7	70	K36600481_K0J095
650	76x120	1.8	45	1560	4.6	70	K36600651_K0J120
650	86x95	1.3	45	2120	5.1	70	K36600651_K0Q095
780	76x140	2.2	40	1550	4.7	80	K36600781_K0J140
820	76x155	1.5	40	3060	4.3	70	K36600821_K0J155
1000	86x140	1.7	50	2070	4.6	70	K36600102_K0Q140
1100	86x140	1.7	40	4110	4.5	70	K36600112_K0Q140
1500	116x140	1.6	40	2740	3.9	80	K36600152_K0T140
2000	116x140	1.2	45	8100	4.8	80	K36600202_K0T140
2400	116x175	0.9	50	7810	3.5	100	K36600242_K0T175
3000	116x230	0.8	60	11200	2.8	100	K36600302_K0T230

**RATED
VOLTAGE
VDC**

600V

Cap. μF	$\varnothing \times \text{L}$ mm	ESR $\text{m}\Omega$	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
200	76x72	3	40	1000	6.2	40	K36800201_K0J072
330	76x117	1.3	45	3960	5.6	60	K36800331_K0J117
420	76x147	1.4	40	4200	4.7	60	K36800421_K0J147
470	86x122	1.3	50	4700	3.2	60	K36800471_K0Q122
490	86x125	0.9	40	4900	3.5	70	K36800491_K0Q125
500	86x122	3.5	75	5000	3.3	50	K36800501_K0Q122
500	116x80	3	40	4500	3.3	70	K36800501_K0T080
550	86x122	3.5	75	3850	3.6	70	K36800551_K0Q122
650	86x145	1.6	40	5200	4.4	70	K36800651_K0Q145
750	86x175	1.6	50	6750	4.3	70	K36800751_K0Q175
1000	96x175	1.5	50	8000	3	80	K36800102_K0R175
1000	116x125	1.2	60	4000	2.9	80	K36800102_K0T125
1100	86x250	1.2	50	7700	3	70	K36800112_K0Q250
1100	116x145	1.2	40	6600	2.5	90	K36800112_K0T145
1500	116x175	1	50	9000	2.5	100	K36800152_K0T175
2000	116x230	0.8	60	18000	2	100	K36800202_K0T230
2750	136x230	0.7	60	19250	1.8	100	K36800272_K1U230
3500	136x335	0.4	60	12250	1.2	100	K36800352_K0U335

**RATED
VOLTAGE
VDC**

800V

K36 TYPE STANDARD RATINGS

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
200	76x72	3	40	1000	6.2	40	K36900201_K0J072
330	76x117	1.3	45	3960	5.6	60	K36900331_K0J117
420	76x147	1.4	40	4200	4.7	60	K36900421_K0J147
470	86x122	1.3	50	4700	3.2	60	K36900471_K0Q122
490	86x125	0.9	40	4900	3.5	70	K36900491_K0Q125
500	86x122	3.5	60	5000	3.3	50	K36900501_K0Q122
500	116x80	3	40	4500	3.3	70	K36900501_K0T080
550	86x122	3.5	60	3850	3.6	70	K36900551_K0Q122
650	86x145	1.6	40	5200	4.4	70	K36900651_K0Q145
750	86x175	1.6	50	6750	4.3	70	K36900751_K0Q175
1000	96x175	1.5	50	8000	3	80	K36900102_K0R175
1000	116x125	1.2	60	4000	2.9	80	K36900102_K0T125
1100	86x250	1.2	50	7700	3	70	K36900102_K0Q250
1100	116x145	1.2	40	6600	2.5	90	K36900112_K0T145
1500	116x175	1	50	9000	2.5	100	K36900152_K0T175
2000	116x230	0.8	60	18000	2	100	K36900202_K0T230
2750	136x230	0.7	60	19250	1.8	100	K36900272_K1U230
3500	136x335	0.4	60	12250	1.2	100	K36900352_K0U335

**RATED
VOLTAGE
VDC**

900V

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
250	76x120	4.7	60	1500	3.9	50	K36111251_K0J120
330	86x120	3.8	60	1980	3.8	60	K36111331_K0Q120
360	86x120	3.8	60	2160	3.5	50	K36111361_K0Q120
400	86x145	1.5	45	2000	2.9	70	K36111401_K0Q145
420	86x135	2.3	60	3780	4.8	65	K36111421_K0Q135
420	86x155	1.8	40	1680	4.4	80	K36111421_K0Q155
500	86x175	1.6	50	3000	2.8	70	K36111501_K0Q175
650	116x125	1.9	60	3250	2.9	60	K36111651_K0T125
680	86x225	1.8	60	4080	1.9	70	K36111681_K0Q225
730	116x150	0.8	45	2920	2.5	80	K36111731_K0T150
900	136x125	1.4	60	4050	2.5	60	K36111901_K0U125
920	116x175	1.4	60	5520	2.2	80	K36111921_K0T175
1250	116x230	1.1	60	7250	2.7	100	K36111122_K1T230
1700	136x230	0.9	60	7650	1.8	100	K36111172_K0U230
2550	136x335	0.7	60	10125	1.3	120	K36111252_K1U335

**RATED
VOLTAGE
VDC**

1100V

K36 TYPE STANDARD RATINGS

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
220	76x120	4.9	60	1980	3.9	50	K36121221_K0J120
250	86x120	4.5	60	2250	3.6	50	K36121251_K0Q120
250	86x125	1.5	40	2000	3.3	60	K36121251_K0Q125
270	86x120	4	60	2430	3.5	50	K36121271_K0Q120
330	116x125	3.3	60	2640	3	60	K36121331_K0T125
330	86x140	4.8	80	1980	3	50	K36121331_K0Q140
420	86x175	1.8	50	2520	2.8	70	K36121421_K0Q175
470	86x225	2.5	60	2820	2.1	80	K36121471_K0Q225
500	116x130	1.6	50	3000	2.8	90	K36121501_K0T130
550	116x130	2.5	30	2475	2.8	100	K36121551_K0T130
680	116x175	1.3	50	5440	2.2	80	K36121681_K0T175
1000	136x175	1.1	50	8000	2	100	K36121102_K0U175
1000	116x230	1.3	60	7000	1.9	85	K36121102_K0T230
1200	136x230	1.2	60	7800	1.6	100	K36121122_K0U230
1800	136x335	0.9	60	9900	1.2	120	K36121182_K0U335

**RATED
VOLTAGE
VDC**

1200V

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
90	76x95	3.3	45	1200	5.5	50	K36161900_K0J095
120	76x120	4.4	55	1200	4.8	50	K36161121_K0J120
120	86x95	2.6	45	1200	5.1	60	K36161121_K0Q095
150	76x140	4.9	55	1200	4.6	45	K36161151_K0J140
150	76x145	2.4	45	1200	4.3	70	K36161151_K0J145
170	76x175	2.5	45	2300	4.3	65	K36161171_K0J175
250	86x175	2.2	45	3300	4.4	70	K36161251_K0Q175
320	116x120	1.9	50	4280	5	70	K36161321_K0T120
420	116x175	2.1	45	6549	3.6	100	K36161421_K0T175
470	116x175	1.4	45	5640	3.4	100	K36161471_K0T175
600	116x230	1.1	50	9000	2.8	100	K36161601_K0T230
850	136x230	1.1	60	8500	2.4	120	K36161851_K0U230

**RATED
VOLTAGE
VDC**

1600V

K36 TYPE STANDARD RATINGS

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
75	76x120	8.4	60	1200	3.9	40	K36201750_K0J120
100	86x120	6.3	60	1600	3.5	50	K36201101_K0Q120
150	86x175	2.8	50	2400	2.5	60	K36201151_K0Q175
190	116x125	3.4	60	3040	2.9	60	K36201191_K0T125
200	86x225	3.3	60	3200	3.3	60	K36201201_K0Q225
270	116x175	2.2	50	4320	3.2	70	K36201271_K0T175
280	116x175	1.5	50	4480	2.2	70	K36201281_K0T175
370	116x225	1.9	60	5920	1.9	70	K36201371_K0T225
400	136x175	1.1	50	6400	1.8	80	K36201401_K0U175
600	136x260	0.9	50	9600	1.3	100	K36201601_K0U260
800	135x335	1	60	12800	1.1	100	K36201801_K0U335

**RATED
VOLTAGE
VDC**

2000V

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
66	86x140	4	60	1450	4.6	50	K36251660_K0Q140
130	116x140	2.6	60	3900	3.3	60	K36251131_K0T140
150	116x175	1.2	50	4500	2.9	100	K36251151_K0T175
210	116x225	1.4	60	6300	2.5	100	K36251211_K0T225
210	136x175	1.1	50	6300	2.5	100	K36251221_K0U175
290	136x225	1.3	60	8700	2.1	100	K36251291_K0U225
350	136x265	1.5	60	9800	1.9	100	K36251351_K0U265

**RATED
VOLTAGE
VDC**

2500V

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
42	86x140	4.7	60	1470	4.7	50	K36301420_K0Q140
68	86x225	2.3	60	2380	3.2	70	K36301680_K0Q225
66	116x120	2.6	60	2310	3.6	60	K36301660_K0T120
82	116x175	5.9	60	2870	3.3	60	K36301820_K0T175
100	116x175	5.6	60	3500	2.4	50	K36301101_K0T175
120	136x175	4.3	50	4200	2.9	50	K36301121_K0U175
150	116x230	6.7	60	5250	2.9	40	K36301151_K0T230
180	136x230	5.6	60	6300	3	60	K36301181_K0U230

**RATED
VOLTAGE
VDC**

3000V

K36 TYPE STANDARD RATINGS

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
42	116x130	3.7	60	2520	3.2	60	K36361420_K0Q130
60	136x130	2.7	60	3600	3.3	70	K36361600_K0U130
88	116x225	6.6	60	5280	2.5	100	K36361880_K0Q225
110	116x265	4.5	60	6600	2.2	100	K36361111_K0Q265
125	136x230	4.7	60	7500	1.5	100	K36361121_K1U230
150	136x265	2.5	60	9000	1.4	100	K36361151_K0U265

**RATED
VOLTAGE
VDC**

3600V

Cap. μF	Ø x L mm	ESR mΩ	Ls nH	I _{peak} A	R _{th} K/W	I _{rms} 10kHz 45°C A	PART NUMBER Termination digit excluded
24	86x140	3.9	60	1680	4.5	40	K36401240_K0Q140
38	86x225	2	60	2660	3.2	80	K36401380_K0Q225
70	116x225	3.8	60	4900	2.5	100	K36401700_K0Q225
100	136x225	4.5	60	7000	2.1	100	K36401101_K0U225
130	136x265	3.8	60	9100	1.8	100	K36401131_K0U265

**RATED
VOLTAGE
VDC**

4000V

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

PART NUMBER SYSTEM FOR METALLIZED POLYPROPYLENE DC-LINK CAPACITORS

Total length is 17 digits

