

# KP

- Ultra long life:10000 hours
- Best for switching power supplies , Inverter.
- Adapted to the ROHS directive

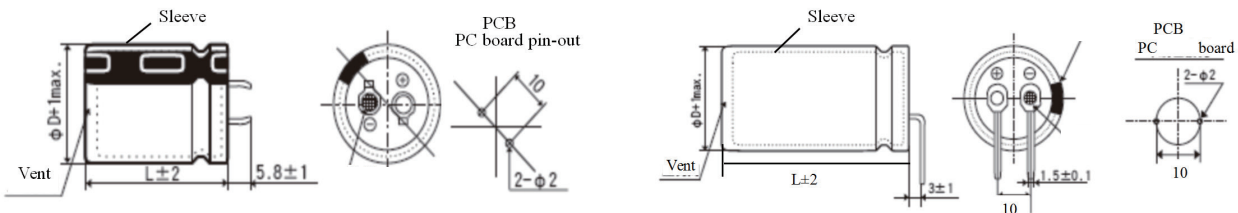


## Specifications

Items	Characteristics		
Operating Temperature Range	-25°C ~ +85°C		
Rated Voltage Range	200V ~ 450V		
Capacitance Tolerance	±20% ( +20°C , 120Hz )		
Leakage Current	$I \leq 3\sqrt{CV}$ (μA) ( at 20°C,after 5 minutes )		
(tgδ) Dissipation Factor (+20°C, 120Hz)	$U_R$ (V)	200~250	400~450
	tgδ	0.15	0.20
Temperature Characteristics (Impedance ratio at 120Hz)	$U_R$ (V)	200~250	400~450
	Z-25°C/Z+20°C	3	8
Load Life	After applying rated voltage with specified ripple current for 10000 hours at +85°C and then resumed for 16 hours: Capacitance change : ±30% of the initial measured value Leakage current : ≤Initial specified value Dissipation factor : ≤3 times of the initial specified value		
Shelf Life	After storage for 1000 hours at +85°C, $U_R$ to be applied for 30 minutes and then resumed for 16 hours: Capacitance change : ±15% of the initial measured value Leakage current : ≤Initial specified value Dissipation factor : ≤1.5 times of the initial specified value		

## Case Table

Unit: mm



## Frequency Coefficient

Freq.(Hz)	50	120	1K	10K	≥50K
U(V)	50	120	1K	10K	≥50K
200~450	0.80	1.00	1.30	1.41	1.43

## Dimensions

CAP(μF)		WV		200V(2D)								250V(2E)							
		Size		φ22		φ25		φ30		φ35		φ22		φ25		φ30		φ35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
220	221											22×30	1.18						
270	271	22×25	1.30									22×35	1.43						
330	331	22×25	1.44									22×40	1.58	25×35	1.53				
390	391	22×30	1.65	25×25	1.63							22×45	1.79	25×40	1.79				
470	471	22×35	1.88	25×30	1.86							22×50	2.05	25×45	2.05	30×35	1.94		
560	561	22×40	2.08	25×30	2.05	30×25	2.05							25×50	2.24	30×40	2.24		
680	681	22×45	2.36	25×35	2.36	30×30	2.36									30×45	2.58		
820	821	22×50	2.68	25×40	2.68	30×30	2.62									30×50	2.84	35×40	2.82
1000	102			25×45	3.12	30×35	3.00	35×30	2.96									35×45	3.31
1200	122			25×50	3.44	30×40	3.44	35×35	3.40									35×50	3.66
1500	152					30×50	3.93	35×40	3.87										
1800	182							35×45	4.37										
2200	222							35×50	5.00										

CAP(μF)		WV		400V(2G)								450V(2W)							
		Size		φ22		φ25		φ30		φ35		φ22		φ25		φ30		φ35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
68	680											22×25	0.68						
82	820	22×25	0.80									22×30	0.82						
100	101	22×30	0.94									22×35	0.90	25×25	0.92				
120	121	22×30	1.04	25×25	1.08							22×35	1.02	25×30	1.04	30×25	1.07		
150	151	22×35	1.18	25×30	1.21							22×40	1.12	25×35	1.19	30×30	1.23		
180	181	22×40	1.34	25×35	1.37	30×25	1.45					22×50	1.26	25×40	1.33	30×30	1.38		
220	221	22×45	1.50	25×35	1.56	30×30	1.58							25×45	1.51	30×35	1.56	35×30	1.58
270	271			25×40	1.70	30×35	1.73							25×50	1.65	30×40	1.80	35×35	1.81
330	331			25×50	1.90	30×40	1.95	35×30	1.95							30×45	2.02	35×35	2.05
390	391					30×40	2.15	35×35	2.17							30×50	2.24	35×40	2.27
470	471					30×50	2.39	35×40	2.42									35×45	2.55
560	561							35×45	2.71										
680	681							35×50	2.95										

Size φD×L(mm)

Maximum Allowable Ripple Current ( A rms) at 85°C 120Hz