

KP Series

Features

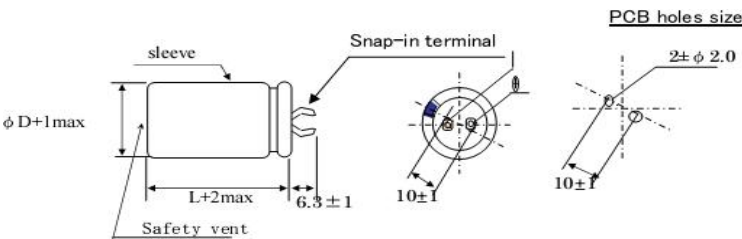
- ◆ High ripple current, smaller size, 5000 hours at 105℃ .
- ◆ Snap-in Terminal Type .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics											
Temperature Range	-40~+105℃						-25~+105℃					
Rated Voltage Range	10~100Vdc						160~450Vdc					
Capacitance Range	47~56000μF											
Capacitance Tolerance	±20% （120Hz， +20℃ ）											
Leakage Current （+20℃,max. ）	I≤3√CV （μA） （ After 5 minute application of rated voltage at +20℃ ）											
Dissipation Factor(tgδ) 120Hz, +20℃												
	Working Voltage(Vdc)	10	16	25	35	50	63	80	100	160~250	315~400	450
	D.F(%)max.	55	50	45	40	35	30	25	20	15	15	20
For capacitance>1000μF , Add 2% per another 1000μF.												
Low Temperature Characteristics(120Hz)	Impedance ratio max.											
	Working Voltage(Vdc)		10~100			160~250			315~400		450	
	Z-25℃/ Z+20℃		4			3			5		8	
	Z-40℃/ Z+20℃		15			—			—		—	
Endurance	After applying rated voltage with rated ripple current for 5000 hours at 105℃, the capacitors shall meet the following requirements.											
	Capacitance Change		Within ±20% of the initial value									
	Dissipation Factor		No more than 200% of the specification value									
	Leakage Current		No more than the specification value									
Shelf Life	After storing the capacitors under no load at 105℃ for 1000 hours, the characters shall meet the following requirements.											
	Capacitance Change		Within ±20% of the initial value									
	Dissipation Factor		No more than 200% of the specification value									
	Leakage Current		No more than 200%of the specification value									
Others	JISC-5101(IEC 60384)											

Dimensions



Frequency coefficient

Freq(Hz)	50	120	1K	≥10K
WV(V)				
10~100	0.90	1.00	1.15	1.25
160~250	0.80	1.00	1.25	1.47
315~450	0.80	1.00	1.30	1.47

KP Series

Case size & Maximum permissible ripple current

Voltage	10V		16V		25V		35V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2700							22×25	1.29
3300							22×30	1.54
3900					22×25	1.31	25.4×25	1.55
4700					22×30	1.55	25.4×30	1.87
5600			25×30	1.44	25.4×25	1.56	30×25	1.80
6800			22×30	1.66	25.4×30	1.88	30×30	2.28
8200	22×25	1.36	25.4×25	1.67	30×25	1.92	30×35	2.69
10000	22×30	1.65	25.4×30	2.07	30×30	2.38	35×30	2.78
12000	25.4×25	1.82	30×25	2.13	35×30	2.76	35×35	3.30
15000	25.4×30	2.11	25.4×40	2.72	30×40	3.13	35×40	3.88
18000	25.4×35	2.32	30×35	3.02	35×35	3.50	35×45	4.40
22000	25.4×40	2.59	30×40	3.46	35×40	3.95		
27000	25.4×45	3.01	30×45	3.88	35×50	4.72		
33000	25.4×50	3.43	30×50	4.33				
39000	30×45	3.78	35×45	4.96				
47000	30×50	4.58	35×50	5.49				
56000	35×50	5.06						

Voltage	50V		63V		80V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
560							22×25	1.01
680							22×30	1.19
820					22×25	1.09	25.4×25	1.26
1000					22×30	1.29	25.4×30	1.52
1200			22×25	1.17	25.4×25	1.32	30×30	1.76
1500	22×25	1.21	25.4×25	1.38	25.4×30	1.74	30×35	1.89
1800	22×30	1.28	25.4×30	1.63	30×25	1.68	35×30	2.05
2200	22×30	1.52	25.4×30	1.75	30×30	2.02	35×35	2.48
2700	22×35	1.77	25.4×35	2.03	35×30	2.18	35×40	2.87
3300	22×40	2.02	25.4×40	2.33	30×40	2.69	35×45	3.25
3900	22×45	2.27	30×35	2.46	30×45	2.94	35×50	3.56
4700	25.4×40	2.43	30×40	2.82	35×45	3.44		
5600	25.4×45	2.72	30×45	3.22	35×50	3.72		
6800	30×40	3.01	35×45	3.61				
8200	30×50	3.63	35×50	3.94				
10000	35×45	3.79						
12000	35×50	4.06						

# KP Series

## Case size & Maximum permissible ripple current

Voltage	160V		200V		250V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
68						
100						
150					22×25	0.57
180			22×25	0.57	25.4×25	0.66
220	22×25	0.63	22×30	0.72	25.4×25	0.75
270	22×30	0.76	25.4×25	0.77	25.4×30	0.83
330	22×35	0.90	22×40	0.92	22×45	0.96
	25.4×25	0.84	25.4×30	0.88	30×30	0.96
390	22×40	1.00	25.4×35	0.99	30×30	1.07
470	22×40	1.11	25.4×40	1.14	30×35	1.19
560	22×45	1.26	25.4×45	1.30	30×40	1.35
680	22×50	1.44	25.4×50	1.48	30×50	1.58
820	25.4×45	1.63	30×45	1.67	35×45	1.75
1000	30×45	1.89	30×50	1.91	35×50	2.02
1200	30×50	2.16	35×50	2.21		
1500	35×50	2.61				

Voltage	350V		400V		450V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
47					22×25	0.41
56			22×25	0.34	22×30	0.44
68	22×25	0.39	22×30	0.44	22×35	0.50
			25.4×25	0.40	25.4×25	0.47
82	22×30	0.49	22×35	0.50	22×40	0.56
			25.4×25	0.50	25.4×30	0.53
100	22×35	0.55	22×35	0.56	22×45	0.64
			25.4×30	0.50	25.4×35	0.55
120	22×35	0.55	25.4×35	0.58	25.4×40	0.63
	25.4×30	0.55	30×30	0.59	30×30	0.64
150	22×40	0.60	22×50	0.67	25.4×45	0.71
	25.4×35	0.60	25.4×40	0.66	30×35	0.71
	30×25	0.60	30×30	0.65	35×25	0.73
180	25.4×40	0.72	25.4×45	0.75	25.4×50	0.82
	30×30	0.71	30×35	0.74	30×40	0.77
	35×25	0.73	35×30	0.83	35×30	0.80
220	30×35	0.77	25.4×50	0.84	30×45	0.91
	35×30	0.80	30×40	0.84	35×35	0.94
270	30×40	0.94	30×45	1.10	30×50	1.15
	35×35	1.04	35×40	1.09	35×40	1.15
330	30×50	1.19	35×45	1.17	35×45	1.33
390	35×45	1.22	35×50	1.26		
470	35×50	1.38				

Size ΦD×L (mm), Ripple Current (A, rms. /105℃ 120Hz) .

Above size is the standard size for our product. If you need special size please contact our sales offices .