



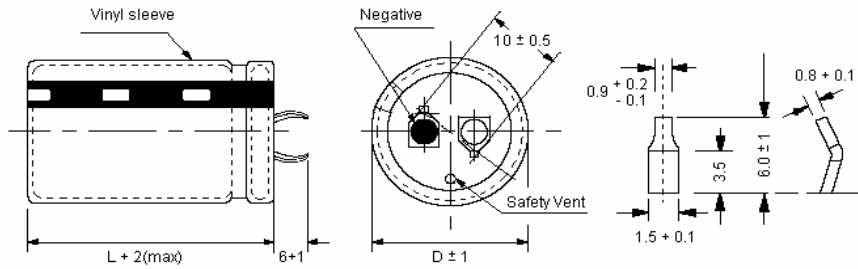
RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR

KG Series

■ **FEATURES**

- Standard snap-in terminal spacing fixed at 10mm which can be mounted to PCB directly without holder
- With high ripple current endurance
- Applications for use in power supplies, OA equipment, TV set and audio as a filter

■ **OUTLINE**



P.C.B. Terminal (SNAP-IN)

■ **SPECIFICATIONS**

Items	Characteristics														
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)														
Rated Working Voltage Range	10 ~ 100Vdc							160 ~ 450Vdc							
Operation Temperature	-40°C ~ +85°C							-25°C ~ +85°C							
Leakage Current (25°C)	(After 2 minutes applying the DC working voltage)							(After 5 minutes applying the DC working voltage)							
	I ≤ 0.01CV (µA)							I ≤ 0.03CV (µA)							
	I : Leakage Current (µA)					C : Rated Capacitance (µF)					V : Working Voltage (V)				
Surge Voltage (25°C)	W.V.	10	16	25	35	50	63	80	100	160	200	250	350	400	450
	S.V.	13	20	32	44	63	79	100	125	200	250	300	400	450	500
Dissipation Factor (120Hz, 25°C)	W.V.	10	16	25	35	50	63	80	100	160	200	250	350	400	450
	tan d	0.55	0.50	0.45	0.45	0.35	0.30	0.25	0.20	0.15	0.15	0.15	0.20	0.20	0.20
Temperature Characteristics	W.V.	10	16	25	35	50	63	80	100	160	200	250	350	400	450
	- 25°C / + 25°C	4	4	3	3	2	2	2	2	4	4	4	4	4	8
	- 40°C / + 25°C	15	15	10	8	6	6	5	5	-	-	-	-	-	-
Load Test	Impedance ratio at 120Hz														
	After 2000 hours application of WV at +85°C, the capacitor shall meet the following limits.														
	Capacitance Change	≤ ± 20% of initial value													
	tan d	≤ 150% of initial specified value													
Leakage Current	≤ initial specified value														
Shelf Test	After 1000 hours, no voltage applied at +85°C, the capacitor shall meet the following limits.														
	Capacitance Change	≤ ± 20% of initial value													
	tan d	≤ 150% of initial specified value													
	Leakage Current	≤ 200% of initial specified value													



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■ DIMENSIONS

D x L (mm)

uF \ WV	Item	10				16									
		22	25	30	35	22	25	30	35						
8200						22x25	2.30								
10000						22x30	2.53								
12000	22x25	2.17				22x30	2.82	22x25	2.66						
15000	22x30	2.59	25x25	2.59		22x35	3.32	25x30	3.28	30x25	3.36				
18000	22x30	2.89	25x25	2.77		22x40	3.58	25x35	3.58	30x30	3.48				
22000	22x35	3.41	25x30	3.29	30x25	3.18		22x50	4.07	25x40	4.00	30x30	3.94		
27000	22x40	3.64	25x35	3.64	30x30	3.59				25x45	4.48	30x35	4.34	35x30	4.34
33000	22x50	4.12	25x40	4.10	30x30	4.12				25x50	4.94	30x40	4.84	35x30	4.80
39000			25x45	4.76	30x35	4.69	35x30	4.55				30x45	5.50	35x35	5.41
47000			25x50	5.20	30x40	5.20	35x35	5.17				30x50	6.12	35x40	6.12
56000					30x45	5.93	35x35	5.76						35x45	6.86
68000					30x50	6.75	35x40	6.73							
82000							35x50	7.65							

uF \ WV	Item	25				35								
		22	25	30	35	22	25	30	35					
3900						22x25	2.00							
4700						22x30	2.21	25x25	2.19					
5600	22x25	2.08				22x30	2.51	25x25	2.48					
6800	22x30	2.30				22x35	2.60	25x30	2.60	30x25	2.78			
8200	22x35	2.53	25x25	2.50		22x40	3.12	25x35	3.00	30x30	2.96			
10000	22x35	2.86	25x30	2.84		22x45	3.23	25x40	3.23	30x30	3.25			
12000	22x40	3.18	25x35	3.13	30x25	3.18			25x45	3.61	30x35	3.61	35x30	3.62
15000	22x50	3.67	25x40	3.60	30x30	3.60			25x50	4.30	30x40	4.32	35x30	4.32
18000			25x45	4.21	30x35	4.19	35x30	4.21			30x45	4.66	35x35	5.14
22000					30x40	4.68	35x35	4.69			30x50	5.74	35x40	5.74
27000					30x45	5.42	35x40	5.42					35x45	6.21
33000							34x45	6.08					35x50	6.35
39000							35x50	6.80						

uF \ WV	Item	50				63								
		22	25	30	35	22	25	30	35					
1800						22x25	1.71							
2200	22x25	1.73				22x30	2.11	25x25	2.07					
2700	22x30	1.99				22x35	2.25	25x30	2.24					
3300	22x30	2.17	22x25	2.14		22x40	2.42	25x35	2.42	30x25	2.50			
3900	22x35	2.45	25x30	2.41		22x45	2.79	25x35	2.78	30x30	2.78			
4700	22x40	2.71	25x30	2.73	30x25	2.71		22x50	3.14	25x40	3.03	30x30	3.03	
5600	22x45	3.09	25x35	3.03	30x30	3.09			25x45	3.42	30x35	3.43	35x30	3.38
6800	22x50	3.55	25x40	3.48	30x30	3.48			25x50	3.96	30x40	3.97	35x35	3.90
8200			25x45	3.71	30x35	3.75	35x30	3.75			30x45	4.41	35x35	4.40
10000			25x50	4.20	30x40	4.27	35x30	4.18			30x50	4.66	35x40	4.64
12000					30x45	4.48	35x35	4.48					35x50	5.04
15000							35x40	5.15						
18000							35x50	5.36						

uF \ WV	Item	80				100									
		22	25	30	35	22	25	30	35						
820						22x25	1.48								
1000						22x30	1.61	25x25	1.61						
1200	22x25	1.59				22x35	1.70	25x30	1.68						
1500	22x30	1.71				22x40	1.96	25x35	1.94	30x30	1.94				
1800	22x35	1.80	25x25	1.81		22x45	2.22	25x40	2.22	30x30	2.15				
2200	22x40	2.27	25x30	2.27	30x25	2.24		22x50	2.65	25x40	2.72	30x35	2.63		
2700	22x45	2.64	25x35	2.64	30x30	2.62				25x50	3.06	30x40	3.05	35x35	3.09
3300	22x50	2.93	25x40	2.93	30x30	2.91						30x45	3.45	35x35	3.45
3900			25x45	3.26	30x35	3.26					30x50	3.68	35x40	3.68	
4700			25x50	3.64	30x40	3.53	35x30	3.49					35x45	3.92	
5600					30x45	3.87	35x35	3.84					35x50	4.10	
6800					30x50	4.44	35x40	4.40							
8200							35x45	4.95							

Case Size D x L (mm)

Max Ripple Current A (rms)/120Hz 85°C



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■ **DIMENSIONS**

D x L (mm)

uF	WV	Item	160				200								
			22	25	30	35	22	25	30	35					
270								22x25	1.24						
330		22x25	1.45					22x30	1.41	25x25	1.36				
390		22x30	1.55	25x25	1.57			22x30	1.57	25x25	1.55				
470		22x30	1.77	25x25	1.77			22x40	1.79	25x30	1.75	30x25	1.76		
560		22x35	1.94	25x30	1.94	30x25	1.95	22x40	1.98	25x35	1.95	30x30	1.95		
680		22x40	2.13	25x35	2.15	30x25	2.15	22x45	2.24	25x40	2.22	30x30	2.18		
820		22x50	2.42	25x40	2.40	30x30	2.40			25x45	2.55	30x35	2.53	35x30	2.49
1000				25x45	2.74	30x35	2.72	35x30	2.68	25x50	2.96	30x40	2.94	35x30	2.90
1200				25x50	3.10	30x40	3.08	35x30	3.07			30x45	3.27	35x35	3.22
1500						30x45	3.58	35x35	3.52					35x45	3.73
1800						30x50	4.15	35x40	4.15					35x50	4.15
2200								35x45	4.50						

uF	WV	Item	250				350								
			22	25	30	35	22	25	30	35					
100								22x25	0.73						
120								22x25	0.86						
150		22x25	0.94					22x30	1.08	25x25	1.10				
180		22x25	1.08					22x35	1.21	25x30	1.23				
220		22x30	1.14	25x25	1.12			22x40	1.33	25x35	1.36	30x25	1.37		
270		22x30	1.28	25x25	1.36			22x45	1.54	25x40	1.57	30x30	1.62	35x25	1.84
330		22x35	1.52	25x30	1.50	30x25	1.45			25x45	1.69	30x35	1.79	35x30	2.07
390		22x40	1.74	25x35	1.70	30x25	1.70			25x50	1.94	30x40	2.02	35x35	2.30
470		22x45	1.95	25x40	1.95	30x30	1.84					30x45	2.28	35x40	2.49
560				25x45	2.24	30x35	2.12	35x25	2.12			30x50	2.47	35x45	2.85
680				25x50	2.41	30x40	2.45	35x30	2.45					35x50	3.13
820						30x45	2.73	35x35	2.72						
1000						30x50	3.22	35x40	3.14						
1200								35x45	3.61						
1500								35x50	3.91						

uF	WV	Item	400				450								
			22	25	30	35	22	25	30	35					
47		22x25	0.46					22x25	0.42						
56		22x25	0.58					22x25	0.55						
68		22x25	0.67					22x25	0.64						
82		22x25	0.76					22x30	0.78						
100		22x30	0.89	25x25	0.90			22x35	0.85	25x30	0.87				
120		22x30	0.99	25x25	1.03			22x40	0.97	25x35	0.99	30x25	1.02		
150		22x35	1.12	25x30	1.15	30x25	1.15	22x45	1.06	25x40	1.13	30x30	1.16		
180		22x40	1.27	25x35	1.30	30x25	1.40			25x45	1.26	30x35	1.30	35x30	1.31
220		22x45	1.43	25x40	1.49	30x30	1.51			25x50	1.43	30x45	1.47	35x30	1.49
270				25x45	1.61	30x35	1.64	35x30	1.64			30x50	1.71	35x35	1.72
330				25x50	1.80	30x40	1.85	35x30	1.85				1.91	35x40	1.93
390						30x40	2.04	35x35	2.06					35x45	2.16
470						30x50	2.28	35x40	2.30					35x50	2.42
560								35x45	2.57						
680								35x50	2.80						

■ **RIPPLE CURRENT COEFFICIENTS**

Temperature(°C)	45	60	70	85
Multiplier	1.55	1.30	1.20	1.00

Frequency	60(50)	120	1K	10K	100K
WV	Multiplier				
10 ~ 35V	0.90	1.00	1.05	1.10	1.10
50 ~ 100V	0.90	1.00	1.15	1.20	1.20
160 ~ 250V	0.80	1.00	1.35	1.45	1.50
350 ~ 450V	0.80	1.00	1.10	1.15	1.15