

LARGE ALUMINUM ELECTROLYTIC CAPACITORS



Upgrade

KG

Wide Temperature, High Ripple Series

- High ripple current compared with HG series
- Load life of 3000 hours at 105°C
- Complied to the RoHS directive

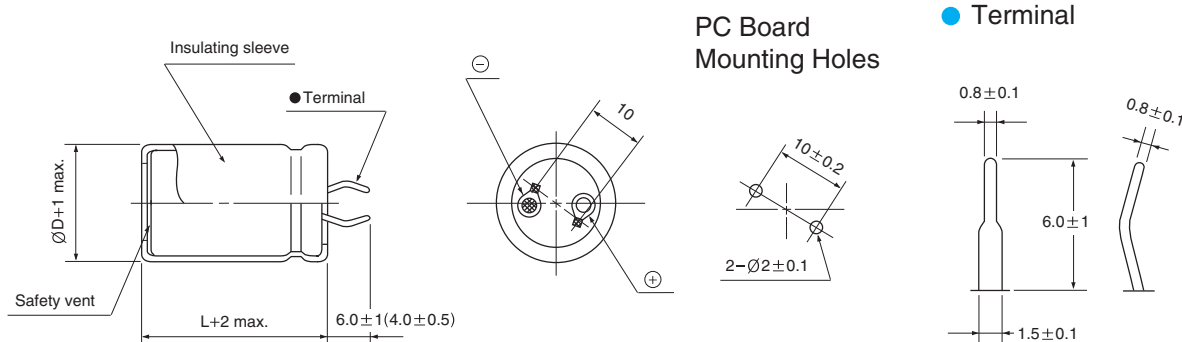
HG → **KG**
High Ripple



Item	Characteristics				
Operating temperature range	-40 ~ +105°C				
Capacitance tolerance	±20% at 120Hz, 20°C				
Leakage current max.	I=3√CV (μA) (after 5 minutes)				
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000μF : tanδ increases by 0.01 for each 1000μF from below value.				
	WV	400	420	450	500
	tanδ	0.15	0.20	0.20	0.20
Load life (after application of the rated voltage for 3000 hours at 105°C)	Leakage current		Less than specified value		
	Capacitance change		Within ±20% of initial value		
	tanδ		Less than 200% of specified value		
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4				

● DRAWING

Unit : mm



- * Shorter terminal(4.0±0.5) is also available upon request.
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

WV	Frequency	60Hz	120Hz	300Hz	1kHz	10kHz ≤
400 ~ 500		0.85	1.00	1.15	1.20	1.40

LARGE ALUMINUM ELECTROLYTIC CAPACITORS



KG series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\frac{WV}{\mu F \times \varnothing D}$	400				420			
	22	25.4	30	35	22	25.4	30	35
100					22 × 30 0.79	25.4 × 25 0.77		
120	22 × 30 1.23	25.4 × 25 1.23			22 × 30 0.89	25.4 × 25 0.87		
150	22 × 35 1.34	25.4 × 30 1.31			22 × 35 1.10	25.4 × 30 1.09	30 × 25 1.17	
180	22 × 40 1.45	25.4 × 30 1.44	30 × 25 1.69		22 × 40 1.31	25.4 × 35 1.32	30 × 25 1.28	
220	22 × 45 1.58	25.4 × 35 1.69	30 × 30 1.80		22 × 50 1.63	25.4 × 40 1.57	30 × 30 1.55	35 × 25 1.43
270	22 × 50 1.78	25.4 × 40 1.88	30 × 35 2.08	35 × 25 2.13		25.4 × 45 1.82	30 × 35 1.84	35 × 30 1.74
330		25.4 × 50 2.15	30 × 40 2.33	35 × 30 2.35			30 × 40 2.12	35 × 30 1.86
390			30 × 45 2.53	35 × 35 2.54			30 × 45 2.45	35 × 35 2.42
470			30 × 50 2.86	35 × 40 2.86			30 × 50 2.76	35 × 45 2.70

$\frac{WV}{\mu F \times \varnothing D}$	450				500				
	22	25.4	30	35	22	25.4	30	35	
68					22×25 0.67				
82					22×30 0.77	25.4×25 0.79			
100	22×30 1.04	25.4×25 1.08			22×35 0.87	25.4×30 0.90			
120	22×35 1.17	25.4×30 1.18			22×40 0.98	25.4×30 0.98	30×25 0.99		
150	22×40 1.28	25.4×30 1.28	30×25 1.31		22×45 1.11	25.4×35 1.14	30×30 1.19		
180	22×45 1.46	25.4×40 1.43	30×30 1.63		22×50 1.24	25.4×40 1.28	30×30 1.22	35×25 1.19	
220		25.4×40 1.68	30×30 1.68	35×25 1.61		25.4×50 1.46	30×35 1.39	35×30 1.34	
270		25.4×50 2.08	30×35 1.89	35×30 2.14			30×40 1.58	35×35 1.51	
330			30×45 2.24	35×35 2.56			30×50 1.83	35×40 1.73	
390			30×50 2.52	35×40 2.74				35×45 1.91	
470				35×45 3.06				35×50 2.15	
560				35×50 3.11	← Case size $\varnothing D \times L$ (mm) ← Ripple current (Arms) at 105°C, 120Hz				35×60 2.43