

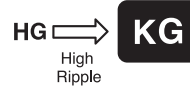
# LARGE ALUMINUM ELECTROLYTIC CAPACITORS



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



Item	Characteristics									
Operating temperature range	-40 ~ +105°C									
Capacitance tolerance	±20% at 120Hz, 20°C									
Leakage current max.	$I=3\sqrt{CV}$ (µA) (after 5 minutes)									
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000µF : tanδ increases by 0.01 for each 1000µF from below value.									
	<table border="1"> <thead> <tr> <th>WV</th> <th>400</th> <th>420</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	WV	400	420	450	500	tanδ	0.15	0.20	0.20
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 (See page 190)

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV µF	ØD	400				420				450			
		22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
100						22 × 30 0.77	25.4 × 25 0.75			22 × 30 0.77	25.4 × 25 0.98		
120		22 × 30 0.90	25.4 × 25 0.86			22 × 30 0.86	25.4 × 25 0.84			22 × 35 0.95	25.4 × 25 1.07		
150		22 × 35 1.05	25.4 × 25 1.01			22 × 35 1.07	25.4 × 30 1.06	30 × 25 1.14		22 × 40 1.16	25.4 × 30 1.16	30 × 25 1.09	
180		22 × 40 1.32	25.4 × 30 1.31	30 × 25 1.35		22 × 40 1.27	25.4 × 35 1.28	30 × 25 1.24		22 × 45 1.39	25.4 × 35 1.39	30 × 30 1.36	
220		22 × 45 1.53	25.4 × 35 1.54	30 × 30 1.50		22 × 50 1.58	25.4 × 40 1.52	30 × 30 1.50	35 × 25 1.39		25.4 × 40 1.60	30 × 30 1.58	35 × 25 1.53
270		22 × 50 1.78	25.4 × 40 1.71	30 × 30 1.81	35 × 25 1.63		25.4 × 45 1.77	30 × 35 1.67	35 × 30 1.69		25.4 × 50 2.02	30 × 35 1.80	35 × 30 2.04
330			25.4 × 50 2.05	30 × 35 2.03	35 × 30 1.98			30 × 40 2.06	35 × 30 1.81			30 × 45 2.13	35 × 35 2.33
390				30 × 40 2.14	35 × 35 2.21			30 × 45 2.33	35 × 35 2.10			30 × 50 2.40	35 × 40 2.61
470				30 × 50 2.54	35 × 40 2.60			30 × 50 2.63	35 × 45 2.57				35 × 45 2.92

WV µF	ØD	500			
		22	25.4	30	35
68		22 × 25 0.67			
82		22 × 30 0.77	25.4 × 25 0.79		
100		22 × 35 0.87	25.4 × 30 0.90		
120		22 × 40 0.98	25.4 × 30 0.98	30 × 25 0.99	
150		22 × 45 1.11	25.4 × 35 1.14	30 × 30 1.19	
180		22 × 50 1.24	25.4 × 40 1.28	30 × 30 1.22	35 × 25 1.19
220			25.4 × 50 1.46	30 × 35 1.39	35 × 30 1.34
270				30 × 40 1.58	35 × 35 1.51
330				30 × 50 1.83	35 × 40 1.73
390					35 × 45 1.91
470					35 × 50 2.15

← Case size ØD × L (mm)  
← Ripple current (Arms) at 105°C, 120Hz

● 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 TYPES