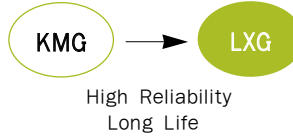


LXG(TLC) Series

• 105°C 5,000Hrs assured.

- Non-solvent proof.
- Long life.
- Almost equal to KMG case sizes.
- For SMPS, Inverter
- RoHS compliant.



SPECIFICATIONS

Item	Characteristics																						
Rated Voltage Range	10 ~ 100 V _{DC}	200 ~ 400 V _{DC}																					
Operating Temperature Range	-40 ~ +105°C	-25 ~ +105°C																					
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)																						
Leakage Current	I=0.02CV or 3mA, whichever is smaller. Where, I: Leakage current (µA) C: Nominal capacitance (µF) V: Rated voltage (V _{DC}) (at 20°C, 5 minutes)																						
※ Dissipation Factor(Tanδ)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63~400</td> </tr> <tr> <td>Tanδ(Max.)</td> <td>0.60</td> <td>0.45</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> </tr> </table> <p>(at 20°C, 120Hz)</p>		Rated Voltage(V _{DC})	10	16	25	35	50	63~400	Tanδ(Max.)	0.60	0.45	0.30	0.25	0.20	0.15							
Rated Voltage(V _{DC})	10	16	25	35	50	63~400																	
Tanδ(Max.)	0.60	0.45	0.30	0.25	0.20	0.15																	
Temperature Characteristics (Max.Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>10~16</td> <td>25</td> <td>35</td> <td>50~63</td> <td>80~100</td> <td>200~400</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>-</td> </tr> </table> <p>(at 120Hz)</p>		Rated Voltage(V _{DC})	10~16	25	35	50~63	80~100	200~400	Z(-25°C)/Z(20°C)	4	3	3	2	2	4	Z(-40°C)/Z(20°C)	15	10	8	6	5	-
Rated Voltage(V _{DC})	10~16	25	35	50~63	80~100	200~400																	
Z(-25°C)/Z(20°C)	4	3	3	2	2	4																	
Z(-40°C)/Z(20°C)	15	10	8	6	5	-																	
Load Life	<p>After the capacitor are subjected to DC voltage and the rated ripple current applied for 5,000 hours at 105°C, the following specifications shall be satisfied when the capacitors are restored to 20°C. The sum of DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitor.</p> <p>Capacitance change ≤ ±25% of the initial value Tanδ ≤ 250% of the initial specified value Leakage current ≤ The initial specified value</p>																						
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 105°C for 500 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement.</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 150% of the initial specified value Leakage current ≤ The initial specified value</p>																						
Others	Satisfied characteristics W of KS C 6421.																						

※ For capacitors with CV products > 100,000 higher Tanδ value may apply.
 When the capacitance exceeds 1,000µF, 0.01 shall be added every 1,000µF increase.

RATED RIPPLE CURRENT

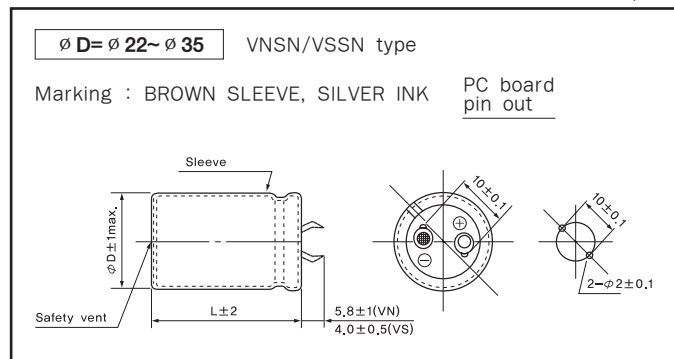
When capacitors are operated in any other conditions at 120Hz the maximum ripple current must be multiplied by the figure shown in the table.

Frequency multiplying factor

Frequency(Hz)	50	120	300	1k	10k~
10~50V _{DC}	0.95	1.00	1.03	1.05	1.08
63~100V _{DC}	0.92	1.00	1.07	1.13	1.19
200, 250V _{DC}	0.81	1.00	1.17	1.32	1.45
350, 400V _{DC}	0.77	1.00	1.16	1.30	1.41

DIMENSIONS OF LXG Series

Unit (mm)





RATINGS OF LXG Series

μF \ V _{DC} ∅ D	10(1A)				16(1C)				25(1E)			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
3,900									22 × 25 1.31			
4,700									22 × 30 1.51	25.4 × 25 1.51		
5,600					22 × 25 1.44				22 × 35 1.70			
6,800	22 × 25 1.30				22 × 30 1.66	25.4 × 25 1.66			22 × 40 1.92	25.4 × 30 1.87	30 × 25 1.90	
8,200					22 × 35 1.87					25.4 × 35 2.14	30 × 30 2.15	35 × 25 2.19
10,000	22 × 30 1.65	25.4 × 25 1.64			22 × 40 2.12	25.4 × 30 2.07	30 × 25 2.11		22 × 50 2.45	25.4 × 40 2.43		
12,000	22 × 35 1.85	25.4 × 30 1.85	30 × 25 1.89			25.4 × 35 2.37	30 × 30 2.37	35 × 25 2.42		25.4 × 50 2.78	30 × 35 2.70	35 × 30 2.76
15,000	22 × 40 2.12	25.4 × 35 2.16			22 × 50 2.74	25.4 × 40 2.71					30 × 40 3.13	35 × 35 3.16
18,000	22 × 50 2.45	25.4 × 40 2.43	30 × 30 2.37	35 × 25 2.42		25.4 × 50 3.11	30 × 35 3.02	35 × 30 3.09			30 × 50 3.64	35 × 40 3.61
22,000			30 × 35 2.73	35 × 30 2.79			30 × 40 3.46	35 × 35 3.49				
27,000		25.4 × 50 3.11	30 × 40 3.13				30 × 50 4.07	35 × 40 4.04				35 × 50 4.70
33,000				35 × 35 3.49								
39,000			30 × 50 3.99	35 × 40 3.96				35 × 50 5.16				
47,000				35 × 50 4.62								

μF \ V _{DC} ∅ D	35(1V)				50(1H)				63(1J)			
	22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
1,000									22 × 25 1.00			
1,200									22 × 30 1.15	25.4 × 25 1.15		
1,500					22 × 25 1.02				22 × 35 1.32			
1,800					22 × 30 1.17	25.4 × 25 1.17			22 × 40 1.49	25.4 × 30 1.45	30 × 25 1.48	
2,200	22 × 25 1.10				22 × 35 1.33					25.4 × 35 1.67	30 × 30 1.68	35 × 25 1.71
2,700					22 × 40 1.51	25.4 × 30 1.47	30 × 25 1.50		22 × 50 1.92	25.4 × 40 1.90	30 × 35 1.93	
3,300	22 × 30 1.42	25.4 × 25 1.41				25.4 × 35 1.70	30 × 30 1.70	35 × 25 1.74		25.4 × 50 2.20		35 × 30 2.18
3,900	22 × 35 1.58	25.4 × 30 1.58			22 × 50 1.91	25.4 × 40 1.89					30 × 40 2.41	35 × 35 2.43
4,700	22 × 40 1.78		30 × 35 1.77				30 × 35 2.11	35 × 30 2.16			30 × 50 2.80	35 × 40 2.78
5,600		25.4 × 35 1.98	30 × 30 1.98	35 × 25 2.03		25.4 × 50 2.38	30 × 40 2.39	35 × 35 2.41				
6,800	22 × 50 2.26	25.4 × 40 2.24					30 × 50 2.79	35 × 40 2.78				35 × 50 3.55
8,200		25.4 × 50 2.57	30 × 35 2.50	35 × 30 2.55								
10,000			30 × 40 2.86	35 × 35 2.88				35 × 50 3.57				
12,000			30 × 50 3.32	35 × 40 3.30								
18,000				35 × 50 4.29								

← Case Size ∅D × L (mm)
 ← Rated Ripple Current (Arms/105°C, 120Hz)



LARGE SIZED ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF LXG Series

μF	V _{dc} ∅ D	80(1K)				100(2A)				200(2D)			
		22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
180										22X25 0.63			
270										22X30 0.81	25.4X25 0.81		
330										22X35 0.92	25.4X30 0.92	30X25 0.94	
390						22X25 0.78				22X40 1.02			
470										22X50 1.17	25.4X35 1.15	30X30 1.15	35X25 1.22
560						22X30 0.99	25.4X25 0.98				25.4X40 1.28	30X35 1.30	
680		22X25 0.97				22X35 1.12					25.4X50 1.48	30X40 1.49	35X30 1.47
820		22X30 1.12				22X40 1.26	25.4X30 1.23	30X25 1.25					35X35 1.65
1,000		22X35 1.27	25.4X25 1.23				25.4X35 1.41	30X30 1.42	35X25 1.45			30X50 1.91	35X40 1.90
1,200		22X40 1.42	25.4X30 1.39	30X25 1.41		22X50 1.60	25.4X40 1.59	30X35 1.61					35X50 2.21
1,500			25.4X35 1.62				25.4X50 1.86	30X40 1.87	35X30 1.85				
1,800		22X50 1.84	25.4X40 1.82	30X30 1.78	35X25 1.82				35X35 2.07				
2,200			25.4X50 2.11	30X35 2.05	35X30 2.09			30X50 2.40	35X40 2.39				
2,700				30X40 2.35	35X35 2.37				35X50 2.81				
3,300				30X50 2.75	35X40 2.73								
4,700					35X50 3.46								

μF	V _{dc} ∅ D	250(2E)				350(2V)				400(2G)			
		22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
56										22X25 0.34			
69						22X25 0.39				22X30 0.44	25.4X25 0.40		
82						22X30 0.49				22X35 0.50			
100						22X35 0.52	25.4X25 0.51				25.4X30 0.52	30X25 0.52	
120						22X40 0.56	25.4X30 0.55	30X25 0.56		22X40 0.57	25.4X35 0.58		35X25 0.61
150		22X25 0.57					25.4X35 0.60		35X25 0.69	22X50 0.67	25.4X40 0.66	30X30 0.65	
180		22X30 0.66	25.4X25 0.66			22X50 0.73	25.4X40 0.72	30X30 0.71				30X35 0.74	35X30 0.76
220		22X35 0.75					25.4X50 0.93	30X35 0.82	35X30 0.83		25.4X50 0.84	30X40 0.84	35X35 0.94
270		22X40 0.85	25.4X30 0.83	30X25 0.85				30X40 0.94	35X35 1.04			30X50 1.10	35X40 1.09
330			25.4X35 0.96	30X30 0.96	35X25 1.02			30X50 1.19	35X40 1.19				
390		22X50 1.08	25.4X40 1.07										35X50 1.26
470			25.4X50 1.22	30X35 1.19	35X30 1.22				35X50 1.38				
560				30X40 1.35	35X35 1.36								
680				30X50 1.58	35X40 1.57								
1,000					35X50 2.02								

Case Size ∅D×L (mm)
 Rated Ripple Current (Ams/105°C, 120Hz)