



# LGK Series 85°C 標準型製品系列

## Features

- Wide CV value range.
- Load life 2000hrs at 85°C
- Safety vent construction design.

## Specifications

Item	Performance Characteristics																																																											
Operating Temperature Range	-40 to + 85 °C							-25 to + 85 °C																																																				
Rated voltage Range	6.3 to 100 VDC							160 TO 450 VDC																																																				
Capacitance Range	0.1 to 15000 uF																																																											
Capacitance Tolerance	±20%[120Hz +20 °C]																																																											
Leakage Current[+20°C.max.]	1 ≤ 0.01CV or 3(uA)After 1 minute whichever is greater measured with rated working voltage applied.							1 ≤ 0.03CV or 3(uA)After 1 minute with rated working voltage applied..																																																				
Dissipation Factor[tan δ]	<table border="1"> <thead> <tr> <th>Working Voltage(VDC)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>63</th><th>100</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th> </tr> </thead> <tbody> <tr> <td>D.F.(%)max</td> <td>24</td><td>20</td><td>16</td><td>14</td><td>12</td><td>10</td><td>9</td><td>8</td><td>20</td><td>20</td><td>20</td><td>25</td><td>25</td><td>25</td> </tr> </tbody> </table>															Working Voltage(VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	D.F.(%)max	24	20	16	14	12	10	9	8	20	20	20	25	25	25															
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For Capacitance > 1000uF add 2% per another 1000uf [+20°C , at 120Hz]																																																												
Low Temperature Characteristics[120Hz]	Impedance ratio max																																																											
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For Capacitance Value 1000uF, add 0.5 per another 1000Uf for-25°C/+25°C add 1 per another 1000Uf for-40°C/+20°C																																																												
Load Life	Test conditions Duration time :2000Hrs Ambient temperature: +85°C Applied voltage: Rated DC working voltage After test requirements: at ≤ +20% of the initial measured value Dissipation Factor: ≤ +200% of the initial measured value Leakage current: ≤ of the initial specified value																																																											
Shelf Life	Test conditions Duration time :500 Hrs Ambient temperature :+85 °C Applied voltage: None After test requirements at +20 °C: Some limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																																																											

## Multiplier for Ripple Current vs. Frequency

## Multiplier for Ripple Current vs. Temperature

CAP(Uf)\Hz		50(60)	120	400	1k	10l	50k-100k
Multiplier	CAP ≤ 10	0.8	1	1.30	1.45	1.65	1.70
	10 < CAP ≤ 100	0.8	1	1.23	1.36	1.48	1.53
	100 < CAP ≤ 1000	0.8	1	1.16	1.25	1.35	1.38
	1000 < CAP	0.8	1	1.11	1.18	1.25	1.28

Temperature °C	45	60	70	85
Multiplier	1.8	1.50	1.30	1.0



