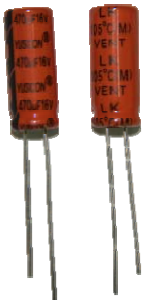


Aluminum Electrolytic Capacitors



LK Series

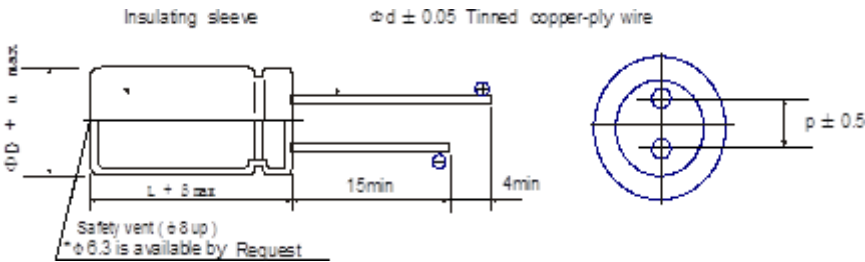
- Low leakage current series
- Wide operation temperature range of -40 ~ +105°C
- For Hi-Fi sound audio systems
- Rohs compliance.



SPECIFICATIONS

Item	Characteristics																		
Operating Temperature Range	- 40 ~ +105℃																		
Voltage Range	10 ~50 V.DC																		
Nominal Cap. Range	0.1 ~ 330 μF																		
Capacitance Tolerance	- 20% ~ + 20% (at 20℃ , 120Hz)																		
Leakage Current	I = 0.002CV or 0.4(μA) whichever is greater.(after 2 minutes) where,I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20℃)																		
Dissipation Factor (tanδ) (at 120Hz, +20℃)	<table><tr><td>WV</td><td>10</td><td>16</td><td>25</td><td>35</td><td>40</td><td>50</td></tr><tr><td>tanδ</td><td>0.15</td><td>0.12</td><td>0.08</td><td>0.08</td><td>0.08</td><td>0.08</td></tr></table>	WV	10	16	25	35	40	50	tanδ	0.15	0.12	0.08	0.08	0.08	0.08				
WV	10	16	25	35	40	50													
tanδ	0.15	0.12	0.08	0.08	0.08	0.08													
Low Temp. Impedance Stability at 120Hz	<table><tr><td>W. V .</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(- 25℃) / Z (+ 25℃)</td><td>2</td><td>2</td><td>1.5</td><td>1.5</td><td>1.5</td></tr><tr><td>Z(- 40℃) / Z (+ 25℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td></tr></table>	W. V .	10	16	25	35	50	Z(- 25℃) / Z (+ 25℃)	2	2	1.5	1.5	1.5	Z(- 40℃) / Z (+ 25℃)	4	3	2	2	2
W. V .	10	16	25	35	50														
Z(- 25℃) / Z (+ 25℃)	2	2	1.5	1.5	1.5														
Z(- 40℃) / Z (+ 25℃)	4	3	2	2	2														
High Temp. Load Test	After 2000 hours, application of DC rated working voltage at 105℃ , the capacitor shall meet the following limits: Capacitance change ... ≦ ±15% of the initial measured value Tan δ ... ≦ 150% of the initial specified value DC leakage current ... ≦ the initial specified value																		
High Temp. Non-Load Test	After storage for 500 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High temperature loading" can be met.																		

DRAWING



Unit: (mm)

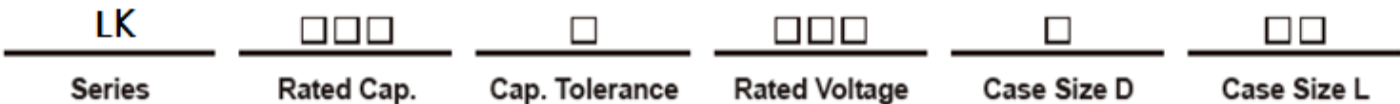
ϕD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
ϕd	0.5			0.6
β	1.0			
α	0.5			

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq.(HZ)	60(50)	120	500	1K	10K $\leq$
Cap(μ F)					
0.1 ~ 47	0.70	1.00	1.25	1.45	1.50
68 ~ 330	0.80	1.00	1.20	1.35	1.40

PART NUMBERING SYSTEM



LK Series

STANDARD RATINGS

WV(Vdc) Cap (μF)	10		16		25		35		40		50	
	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)	ΦDxL (mm)	Ripple current (mAmps)
0.1											5X11	4.9
0.15											5X11	5.4
0.22											5X11	6.5
0.33											5X11	8.0
0.47											5X11	9.6
0.68											5X11	11
1.0											5X11	14
1.5											5X11	17
2.2											5X11	21
3.3											5X11	25
4.7											5X11	30
6.8											5X11	36
10									5X11	44	5X11	44
15							5X11	54	6.3X11	62	6.3X11	62
22					5X11	65	6.3X11	75	6.3X11	75	6.3X11	75
33			5X11	65	6.3X11	92	6.3X11	92	8X11.5	109	8X11.5	109
47	5X11	70	6.3X11	90	6.3X11	110	8X11.5	129	8X11.5	129	8X11.5	129
68	6.3X11	96	6.3X11	108	8X11.5	156	8X11.5	156	10X12.5	181	10X12.5	181
100	6.3X11	117	8X11.5	154	8X11.5	189	10X12.5	219				
150	8X11.5	169	8X11.5	189	10X12.5	269						
220	8X11.5	205	10X12.5	266								
330	10X12.5	291										

→ Rated Ripple Current (mAmps) at 105°C 120Hz

→ Case Size: ΦDxL(mm)