



ENGLISH

# Datasheet

## Aluminium Electrolytic Capacitor, LHK

RS Stock number 707-5809



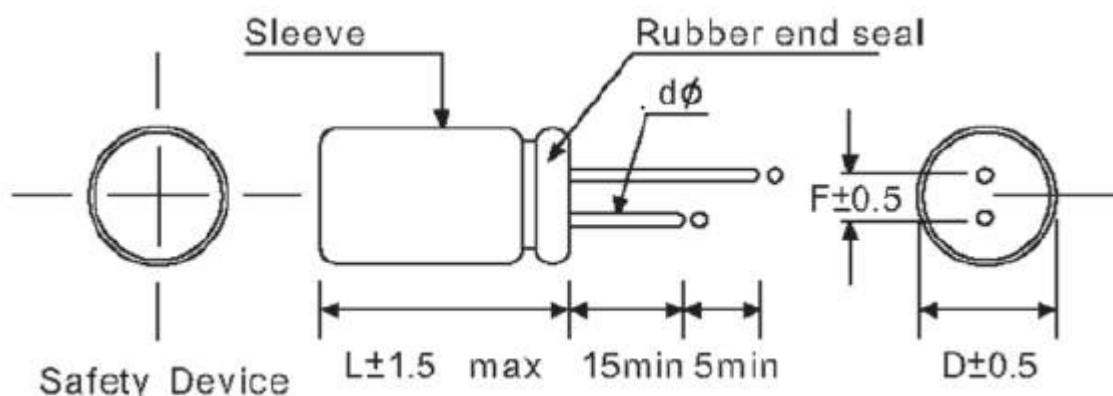
### Specifications:

Item	Performance Characteristics																								
Operating Temperature Range	-40 to +105°C																								
Rated Voltage Range	6.3 to 100 VD																								
Capacitance Range	0.1 to 15000 µF																								
Capacitance Tolerance	± 20% (120Hz, +20°C)																								
Leakage Current (+20°C max.)	I < 0.01 CV or 3 (µA) After 1 minute whichever is greater measured with rated working voltage applied																								
Dissipation Factor	<table border="1"> <thead> <tr> <th>Working Voltage (VDC)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>D.F. (%) max.</td> <td>35</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> </tr> </tbody> </table> <p>For capacitance &gt; 1000µ F, add 2% per another 1000µ (+20°C at 120Hz)</p>	Working Voltage (VDC)	4	6.3	10	16	25	35	50	D.F. (%) max.	35	24	20	16	14	12	10								
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D.F. (%) max.	35	24	20	16	14	12	10																		
Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio max.</p> <table border="1"> <thead> <tr> <th>Working Voltage (VDC)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z (-25°C)/ Z (+20°C)</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z (-40°C)/ Z (+20°C)</td> <td>15</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	Working Voltage (VDC)	4	6.3	10	16	25	35	50	Z (-25°C)/ Z (+20°C)	7	4	3	2	2	2	2	Z (-40°C)/ Z (+20°C)	15	8	6	4	4	4	4
Working Voltage (VDC)	4	6.3	10	16	25	35	50																		
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Z (-40°C)/ Z (+20°C)	15	8	6	4	4	4	4																		
Load Life	<p>Test Conditions:</p> <p>Duration time: 1000Hrs</p> <p>Ambient temperature: +105°C</p> <p>Applied voltage: Rated DC working voltage</p> <p>After test requirements : ≤ 25% of the initial measured value</p> <p>Dissipation Factor: ≤ 200% of the initial specified value</p> <p>Leakage Current: ≤ the initial specified value</p>																								
Shelf Life	<p>Test Conditions:</p> <p>Duration time: 1000Hrs</p> <p>Ambient temperature: +105°C</p> <p>Applied voltage: None</p> <p>After test requirements at +20°C: Same limits as load life</p> <p>Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes</p>																								

**Features:**

- Used in communication equipment's, switching power supply, etc.
- Safety vent construction design

**Diagram of Dimensions:**



(Unit: mm)

D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
$\phi d$	0.45		0.6	

**Ripple Current & Temperature**

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

**Ripple Current & Frequency Multiplier**

Cap.( $\mu F$ ) \ Freq.(Hz)		50(60)	120	500	1K	10K
		0.1~47	0.65	1.0	1.20	1.30
Multiplier	56UP	0.8	1.0	1.10	1.15	1.20



Case Size

Ø D x L (mm)

WV {SV} uF	4 {5}		6.3 {8}		10 {13}		16 {20}		25 {32}		35 {44}		50 {63}	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1-0.47													4x7	1.0~5.0
1													4x7	10
2.2													4x7	19
3.3													4x7	24
4.7													4x7	29
10									4x7	30	4x7 5x7	28 30	5x7	32
22					4x7	35	4x7	37	4x7 5x7	40 45	6x7	47	6x7	50
33			4x7	32	4x7	40	5x7	42	5x7	47	6x7	52	8x7	75
47	4x7	35	4x7	40	4x7	48	5x7	60	6x7	65	6x7	70	8x7	85
68	5x7	55	5x7	55	5x7	60	6x7	72	6x7	75	8x7	84	8x9	97
100	5x7	58	5x7	65	5x7	80	6x7	92	6x7 8x7	100 125	8x7	145	-	-
220	5x7	80	5x7	80	6x7	105	6x7 8x7	125 145	8x9	155	-	-	-	-
330	6x7	130	6x7	130	8x7	160	8x7	175	-	-	-	-	-	-
470	8x7	180	8x7	180	8x7	192	8x9	245	-	-	-	-	-	-

Ripple Current(mA,rms)at105□120Hz