

# Datasheet

## Aluminium Electrolytic Capacitor, LHK

RS Stock number 706-3308



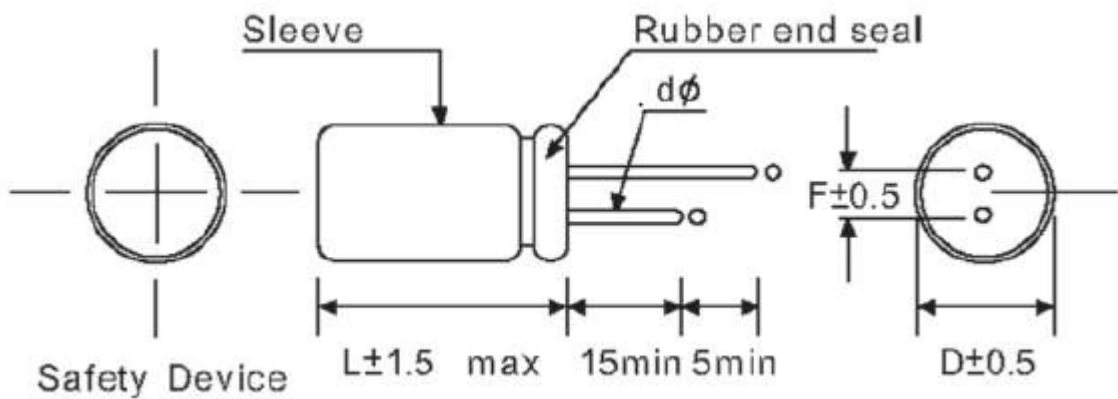
### Specifications:

Item	Performance Characteristics																																												
Operating Temperature Range	-40 to +105°C	-25 to +105°C																																											
Rated Voltage Range	6.3 to 100 VDC	160 to 450 VDC																																											
Capacitance Range	0.1 to 15000 µF	0.47 to 470 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	I < 0.03 CV or 3(µA) After 1 minute with rated working voltage applied																																											
Dissipation Factor	<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>23</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>10</td> <td>10</td> <td>15</td> <td>15</td> <td>16</td> <td>20</td> <td>20</td> <td>20</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.	23	20	16	14	12	10	10	10	15	15	16	20	20	20
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450																														
	D.F. (%) max.	23	20	16	14	12	10	10	10	15	15	16	20	20	20																														
For capacitance > 1000µ F, add 2% per another 1000µ (+20°C at 120Hz)																																													
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.																																												
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450																														
	Z (-25°C) Z (+20°C)	4	3	2	2	2	2	2	2	3	3	3	5	6	15																														
	Z (-40°C) Z (+20°C)	8	6	4	4	3	3	3	3	-	-	-	-	-	-																														
Load Life	Test Conditions: Duration time: 1000Hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements : ≤ 30% of the initial measured value Dissipation Factor: ≤ 200% of the initial specified value Leakage Current: ≤ the initial specified value																																												
Shelf Life	Test Conditions: Duration time: 1000Hrs Ambient temperature: +105°C Applied voltage: None After test requirements at +20°C: Same limits as load life Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes																																												

**Features:**

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

**Diagram of Dimensions:**



Dφ	5	6.3	8	10	13	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12
dφ	0.5		0.6		0.8		1.0		

**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(μF)/Hz		50(60)	120	400	1K	10K	50-100K
Multiplier	CAP ≤ 10	0.8	1.0	1.30	1.45	1.65	1.70
	10 < CAP ≤ 100	0.8	1.0	1.23	1.36	1.48	1.53
	100 < CAP ≤ 1000	0.8	1.0	1.16	1.25	1.35	1.38
	1000 < CAP	0.8	1.0	1.11	1.18	1.25	1.28