

Datasheet

Aluminium Electrolytic Capacitor, LHK

RS Stock number 707-5742



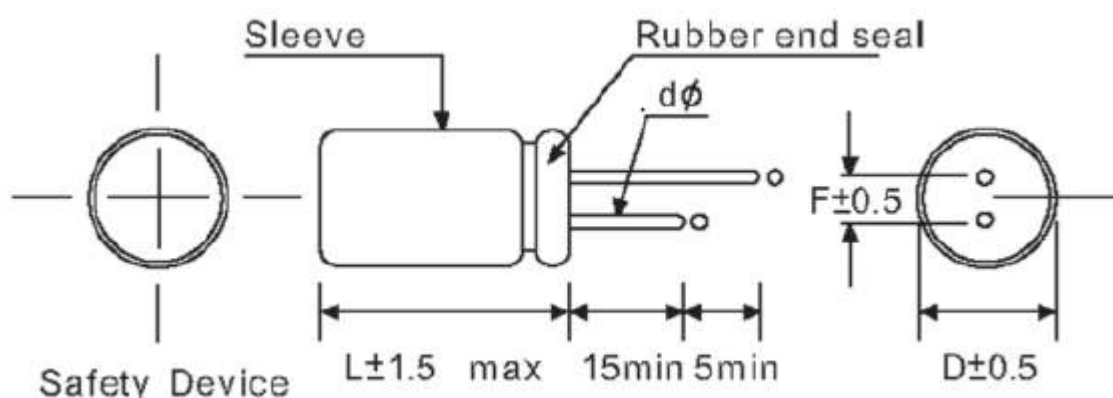
Specifications:

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><tr><td>Working Voltage (VDC)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><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></table> For capacitance > 1000μ F, add 2% per another 1000μ (+20°C at 120Hz)								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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Low Temperature Characteristics (at 120Hz)	Impedance ratio max. <table><tr><td>Working Voltage (VDC)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><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></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
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Load Life	Test Conditions: Duration time: 1000Hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements : ≤ 25% 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:



(Unit: mm)

D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
φd	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.(μF) \ Freq.(Hz)		50(60)	120	500	1K	10K
Multiplier	0.1~47	0.65	1.0	1.20	1.30	1.5
	56UP	0.8	1.0	1.10	1.15	1.20

Case Size

 $\varnothing$ D x L (mm)

$\frac{WV}{\mu F}$ {SV}	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