

# **Datasheet**

## ENGLISH

# **Aluminium Electrolytic Capacitor, LHK**

RS Stock number 707-5701



## **Specifications:**

| Item                            |  |   | Pe                     | rforma             | nce Cl | naract | eristic | S    |   |  |  |  |
|---------------------------------|--|---|------------------------|--------------------|--------|--------|---------|------|---|--|--|--|
| Operating<br>Temperature Range  |  | -40 to +105°C   |                        |                    |        |        |         |      |   |  |  |  |
| Rated Voltage<br>Range          | 6.3 to 100 VD  |   |                        |                    |        |        |         |      |   |  |  |  |
| Capacitance Range               | $0.1\text{to}15000\mu\text{F}$   |   |                        |                    |        |        |         |      |   |  |  |  |
| Capacitance<br>Tolerance        | <u>+</u> 20% (120Hz, +20°C)  |   |                        |                    |        |        |         |      |   |  |  |  |
| Leakage Current<br>(+20°C max.) | I < 0.01 CV or 3 ( $\mu$ A) After1 minute whichever is greater measured with rated working voltage applied |   |                        |                    |        |        |         |      |   |  |  |  |
| Dissipation Factor              | Working Voltage (VDC)  | 4   | 6.3                    | 10                 | 16     | 25     | 35      | 5 50 | 1 |  |  |  |
|                                 | D.F. (%) max.  | 35  | 24                     | 20                 | 16     | 14     | 12      | 10   | 1 |  |  |  |
|                                 | Z (+20°C)  Z (-40°C)/ Z (+20°C)  | 15  | 8                      | 6                  | 4      | 4      | 4       | 4    |   |  |  |  |
| Load Life                       |  | working<br>25% of<br>of the i                                       | the initi<br>nitial sp | al meas<br>ecified |        | alue   |         |      |   |  |  |  |
| Shelf Life                      | Applied voltage: None After test requirements at +2  | Test Conditions: Duration time: 1000Hrs Ambient temperature: +105°C |                        |                    |        |        |         |      |   |  |  |  |

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.

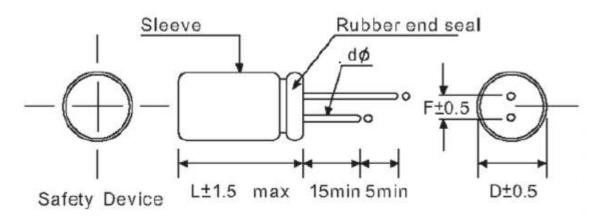


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#### **Features:**

- 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(_) | 45   | 60   | 70   | 85   | 105  |
|----------------|------|------|------|------|------|
| Multiplier     | 2.10 | 1.90 | 1.65 | 1.40 | 1.00 |

Ripple Current & Frequency Multiplier

| Current    | Surrent & 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 |  |  |  |  |  |  |

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Case Size Ø D x L (mm)

| WV<br>{SV} | 4<br>{5} |        | 6.3<br>{8} |        |      | 10<br>{13} |            | 16<br>{20} |            | 25<br>{32} |            | 35<br>{44} |      | 50<br>{63} |  |
|------------|----------|--------|------------|--------|------|------------|------------|------------|------------|------------|------------|------------|------|------------|--|
|            | Size     | Ripple | Size       | Ripple | Size | Ripple     | Size       | Ripple     | Size       | Ripple     | Size       | Ripple     | Size | Ripple     |  |
| 0.1-0.47   |          |        |            |        |      |            |            |            |            |            | <b>—</b>   |            | 4x7  | 1.0~5.0    |  |
| 1          |          |        |            |        |      |            |            |            |            |            | <b>-</b>   |            | 4x7  | 10         |  |
| 2.2        |          |        |            |        |      |            |            |            |            |            | <b>-</b>   |            | 4x7  | 19         |  |
| 3.3        |          |        |            |        |      |            |            |            |            |            | <b></b>    |            | 4x7  | 24         |  |
| 4.7        |          |        |            |        |      |            |            |            |            |            | <b></b>    |            | 4x7  | 29         |  |
| 10         |          |        |            |        |      |            | <b>—</b>   |            | 4x7        | 30         | 4x7<br>5x7 | 28<br>30   | 5x7  | 32         |  |
| 22         |          |        |            | -      | 4x7  | 35         | 4x7        | 37         | 4x7<br>5x7 | 40<br>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<br>8x7 | 100<br>125 | 8x7        | 145        | -    | -          |  |
| 220        | 5x7      | 80     | 5x7        | 80     | 6x7  | 105        | 6x7<br>8x7 | 125<br>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