

Datasheet Aluminium Electrolytic Capacitor, LHK

RS Stock number 707-6509



Specifications:

| Item | Performance Characteristics | | | | | | | | | | | | | | |
|--|--|---|----|----|----|----|----------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Operating Temperature Range | -40 to +105°C | | | | | | | -25 to +105°C | | | | | | | |
| Rated Voltage Range | 10 to 100 VDC | | | | | | | 160 to 450 VDC | | | | | | | |
| Capacitance Tolerance | | + 20% (120Hz, +20°C) | | | | | | | | | | | | | |
| Leakage Current (at | 10V ~ 100V DC | | | | | | 160V ~ 450V DC | | | | 7 | | | | |
| 20°C) | I <u><</u> 0.02CV + 3 (μA) | | | | | | | l <u><</u> 0.05CV + 4 (μA) | | | | | | | |
| | C: Rate V: Wor | I: Leakage current (μA) C: Rated capacitance (μF) V: Working voltage (V) After 5 minutes applying the DC working voltage | | | | | | | | | | | | | |
| Surge Voltage (20°C) | W.V | 10 | 16 | 25 | 35 | 50 | 60 | 100 | 160 | 160 | 200 | 250 | 350 | 400 | 450 |
| | S.V | 13 | 20 | 32 | 44 | 63 | 79 | 125 | 200 | 200 | 250 | 300 | 400 | 450 | 500 |
| Dissipation Factor (120Hz, 20°C) | W.V | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | Tan g | | | | | | | | | | | | | | |
| | For capacitance > 1000 μ F, add 2% per another 1000 μ (+20°C at 120Hz) | | | | | | | | | | | | | | |

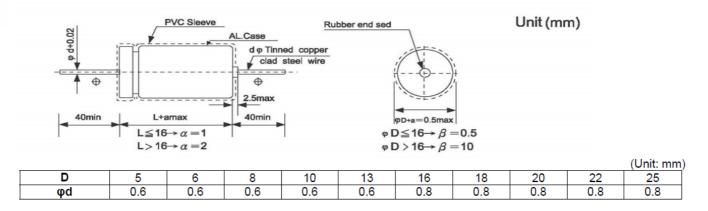
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| Item | Performance Characteristics | | | | | | | | | | | | | |
|-----------------|--|--------------|-------------------|--|----------|----------|---------|---------|-----|-------|-----|-----|-----|-----|
| Temperature | Impedance ratio max. | | | | | | | | | | | | | |
| Characteristics | W.V | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 ' | 250 | 350 | 400 | 450 |
| | -25°C/+20°C | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 12 | 15 | 16 |
| | -40°C/+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 6 | 6 | 10 | - | - | - |
| Load Test | After 1000 hours application of W.V at +105°C. The capacitor shall meet the following limits. | | | | | | | | | | | | | |
| | Capacitance C | Change | | <u>< +</u> 20% of initial value | | | | | | | | | | |
| | Tang | | _ ≤ | <u>< +</u> 20% of initial specified value | | | | | | | | | | |
| | Leakage Curre | ent | | <u>< +</u> | initial | specifi | ed valı | Je |] | | | | | |
| Shelf Test | Shelf Test After 500 hours application of W.V AT +105°C. This capacitor shall meet the following limits. | | | | | | | | | | | | | |
| | Capacitance | e <u>-</u> | <u>< +</u> 20% | % of in | itial va | lue | | | | | | | | |
| | Tang | 4 | <u>< +</u> 200 |)% of i | nitial s | pecifie | d value | | | | | | | |
| | Leakage Curr | ent | 4 | <u>< +</u> 200 |)% of i | nitial s | pecifie | d value | | | | | | |
| | | | | | | | | | | | | | | |

Diagram of Dimensions:



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Features:

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

Ripple Current & Frequency Multipliers

| Freq.(Hz) Cap.(μF) | 50(60) | 120 | 500 | 1К | 10KUP |
|-----------------------|--------|------|------|------|-------|
| Under 100 | 0.70 | 1.00 | 1.30 | 1.40 | 1.50 |
| 100 < C≦1000 | 0.75 | 1.00 | 1.20 | 1.30 | 1.35 |
| 1000 up above | 0.80 | 1.00 | 1.10 | 1.12 | 1.15 |

| Case Size | | | | | | | | | | | | | ØDx | L (mm) | |
|-----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--|
| WV UF | 1 | 0 | 1 | 16 | | 25 | | 35 | | 50 | | 63 | | 100 | |
| | Size | Ripple | |
| 0.47 | | | | | | | | | 6x13 | 8 | 6x13 | 8 | 6x13 | 10 | |
| 1 | | | | | | | | | 6x13 | 12 | 6x13 | 12 | 6x13 | 14 | |
| 2.2 | | | | | | | | - | 6x13 | 18 | 6x13 | 20 | 6x13 | 22 | |
| 3.3 | | | | | | | | | 6x13 | 23 | 6x13 | 24 | 6x13 | 27 | |
| 4.7 | | | | | | | | - | 6x13 | 27 | 6x13 | 29 | 6x13 | 34 | |
| 10 | | | | - | 6x13 | 40 | 6x13 | 40 | 6x13 | 40 | 6x13 | 48 | 8x16 | 58 | |
| 22 | | | | - | 6x13 | 48 | 6x13 | 59 | 6x13 | 62 | 6x13 | 81 | 8x20 | 100 | |
| 33 | | → | 6x13 | 58 | 6x13 | 65 | 6x13 | 69 | 8x16 | 88 | 8x16 | 99 | 8x20 | 135 | |
| 47 | 6x13 | 60 | 6x13 | 73 | 6x13 | 77 | 6x13 | 105 | 8x16 | 115 | 8x16 | 138 | 10x21 | 150 | |
| 100 | 6x13 | 98 | 6x16 | 102 | 8x16 | 140 | 8x16 | 205 | 8x16 | 252 | 10x21 | 280 | 13x22 | 300 | |
| 220 | 8x16 | 170 | 8x16 | 220 | 8x16 | 260 | 8x16 | 305 | 10x20 | 320 | 13x22 | 394 | 16x28 | 505 | |
| 330 | 8x16 | 243 | 8x16 | 250 | 10x21 | 320 | 10x21 | 350 | 13x22 | 415 | 13x26 | 505 | 16x33 | 660 | |
| 470 | 8x16 | 315 | 10x17 | 385 | 10x21 | 420 | 13x22 | 530 | 13x26 | 640 | 16x26 | 715 | 18x36 | 875 | |
| 1000 | 10x21 | 480 | 13x22 | 615 | 13x26 | 760 | 13x26 | 820 | 16x33 | 955 | 16x36 | 1150 | | | |
| 2200 | 13x22 | 940 | 13x26 | 1000 | 16x28 | 1050 | 16x36 | 1165 | 18x36 | 1680 | 22x42 | 1980 | | | |
| 3300 | 13x26 | 1150 | 16x33 | 1340 | 16x36 | 1500 | 18x36 | 1800 | 22x42 | 2080 | | | | | |
| 4700 | 16x28 | 1400 | 16x36 | 1580 | 18x36 | 1980 | 22x42 | 2100 | | | | | | | |
| | | | | | | | | | | | | | | | |

Ripple Current(mA, rms)at 105 120Hz

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Case size:

| wv | 10 | 60 | 20 | 00 | 2 | 50 | 3 | 50 | 40 | 00 | 4 | 50 |
|------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| UF | Size | Ripple |
| 0.47 | 6x13 | 10 | 6x13 | 10 | 6x13 | 10 | 6x13 | 10 | 6x16 | 10 | 6x16 | 10 |
| 1 | 6x13 | 10 | 6x16 | 10 | 6x16 | 11 | 8x16 | 11 | 8x16 | 13 | 8x16 | 13 |
| 2.2 | 8x16 | 16 | 8x16 | 16 | 8x16 | 21 | 10x17 | 26 | 10x17 | 32 | 10x17 | 32 |
| 3.3 | 8x16 | 26 | 10x17 | 26 | 10x17 | 26 | 10x17 | 30 | 10x21 | 33 | 10x21 | 33 |
| 4.7 | 8x16 | 36 | 10x17 | 38 | 10x17 | 40 | 10x21 | 49 | 13x22 | 52 | 13x22 | 52 |
| 10 | 10x21 | 60 | 10x21 | 68 | 10x21 | 78 | 13x22 | 84 | 13x24 | 86 | 16x28 | 90 |
| 22 | 13x22 | 82 | 13x22 | 92 | 13x27 | 92 | 16x33 | 86 | 16x33 | 86 | 16x33 | 91 |
| 33 | 13x22 | 105 | 16x28 | 116 | 16x33 | 116 | 16x36 | 116 | 18x36 | 135 | | |
| 47 | 16x28 | 175 | 16x33 | 238 | 16x33 | 238 | 16x36 | 238 | | | | |
| 100 | 16x33 | 410 | 18x36 | 460 | 18x36 | 460 | | | | | | |
| 220 | 22x42 | 515 | 22x42 | 585 | | | | | | | | |

Ripple Current(mA, rms)at 105 120Hz