

LGK General Purpose, 85°C

Features

- Wide CV value range.
- Load life 1000~2000hrs 85°C.
- Safety vent construction design.

Specifications

| Item | Performance Characteristics | | | | | | | | | | | | | | |
|---|---|-----|----|----|----|----|----|----|-----|-----|--|-----|-----|-----|-----|
| Operating Temperature Range | -40 to +85°C | | | | | | | | | | -25 to +85°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 (tanδ) | 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 | 16 | 18 | 18 | 20 | 20 | 20 |
| | For Capacitance > 1000µF , add 2% per another 1000µF (+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 | 15 | 15 |
| | Z (-40°C)/Z(+20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | - | - | - | - | - | - |
| | For Capacitance Value 1000µF , add 0.5 per another 1000µF for -25°C/+20°C add 1 per another 1000µF for -40°C/+20°C | | | | | | | | | | | | | | |
| Load Life | Test conditions Duration time : 2000Hrs Ambient temperature:+85°C Applied voltage: Rated DC working voltage After test requirements at+20°C After test requirements:≤±20% 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:+85°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. | | | | | | | | | | | | | | |

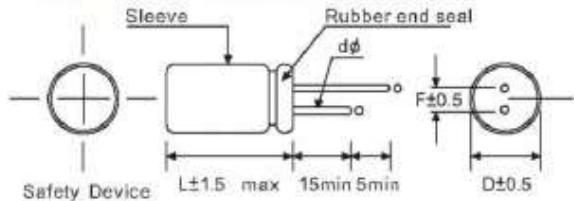
Multiplier for Ripple Current VS. Frequency

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

Multiplier for Ripple Current VS. Temperature

| Temperature (°C) | 45 | 60 | 70 | 85 |
|------------------|-----|------|------|------|
| Multiplier | 1.8 | 1.50 | 1.30 | 1.00 |

Diagram of Dimensions: (Unit: mm)



| 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 | |



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| W.V. (S.V.) | Case Size | | | | | | | | | | φD x L (mm) |
|----------------|----------------|--------------|----------------|--------------|------------------------|-------------------|-------------------------|--------------------|----------------|--------------|-------------|
| | 6.3 {8} | | 10 {13} | | 16 {20} | | 25 {32} | | 35 {44} | | |
| µF | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | |
| 4.7 | | | | | | → | 5x11 | 30 | 5x11 | 40 | |
| 6.8 | | | | | | → | 5x11 | 35 | 5x11 | 45 | |
| 10 | | | → | | 5x11 | 50 | 5x11 | 55 | 5x11 | 60 | |
| 22 | → | | 5x11 | 70 | 5x11 | 75 | 5x11 | 90 | 5x11 | 95 | |
| 33 | 5x11 | 65 | 5x11 | 75 | 5x11 | 85 | 5x11 | 95 | 5x11 | 105 | |
| 47 | 5x11 | 80 | 5x11 | 95 | 5x11 | 115 | 5x11 | 125 | 5x11 6.3x11 | 130 140 | |
| 68 | 5x11 | 90 | 5x11 | 105 | 5x11 | 128 | 6.3x11 | 145 | 6.3x11 | 156 | |
| 100 | 5x11 | 130 | 5x11 | 156 | 5x11 6.3x11 | 160 180 | 6.3x11 | 190 | 6.3x11 8x11 | 210 230 | |
| 220 | 5x11 6.3x11 | 200 240 | 6.3x11 | 250 | 6.3x11 8x11 | 260 300 | 8x11 | 320 | 8x11 10x12 | 340 370 | |
| 330 | 6.3x11 | 280 | 6.3x11 8x11 | 300 330 | 8x11 | 340 | 8x11 10x12 | 420 440 | 10x12 10x15 | 480 490 | |
| 470 | 6.3x11 8x11 | 320 380 | 6.3x11 8x11 | 380 400 | 8x11 10x12 | 450 470 | 8x14 10x12 | 540 580 | 10x17 10x20 | 580 640 | |
| 560 | 8x11 | 410 | 8x11 | 430 | 10x12 | 520 | 10x15 | 640 | 10x17 | 750 | |
| 680 | 8x11 | 460 | 10x12 | 490 | 10x12 | 590 | 10x15 | 730 | 10x20 | 810 | |
| 820 | 8x11 | 510 | 10x12 | 550 | 10x15 | 640 | 10x15 | 825 | 10x20 | 930 | |
| 1000 | 8x11 | 580 | 8x14 10x12 | 600 630 | 8x16 10x15 10x17 | 680 790 810 | 10x15 10x17 10x20 | 880 950 1030 | 10x25 13x21 | 970 1100 | |
| 1500 | 10x15 | 725 | 10x17 | 765 | 10x20 | 960 | 13x21 | 1200 | 13x26 | 1330 | |
| 2200 | 10x17 10x20 | 880 930 | 10x17 10x20 | 1000 1100 | 13x21 13x26 | 1200 1250 | 13x21 13x26 | 1550 1600 | 13x26 13x31 | 1650 1700 | |
| 2700 | 10x20 | 958 | 10x20 | 1160 | 13x21 | 1380 | 16x26 | 1640 | 16x31 | 1900 | |
| 3300 | 10x20 13x21 | 1050 1250 | 10x20 13x21 | 1350 1400 | 13x21 13x26 | 1600 1700 | 16x26 16x31 | 1750 1950 | 16x36 | 2200 | |
| 4700 | 10x25 13x21 | 1100 1700 | 13x21 13x26 | 1800 1900 | 16x26 | 2100 | 16x31 | 2360 | 18x36 | 2380 | |
| 5600 | 13x26 | 1780 | 16x26 | 1960 | 16x31 | 2150 | 16x36 | 2430 | 18x36 | 2580 | |
| 6800 | 16x26 | 1860 | 16x26 | 2020 | 16x31 | 2200 | 18x36 | 2520 | 22x42 | 2790 | |
| 8200 | 16x26 | 1930 | 16x31 | 2070 | 16x36 | 2280 | 18x36 | 2670 | 22x42 | 2900 | |
| 10000 | 16x26 16x31 | 2000 2110 | 16x36 18x36 | 2150 2290 | 18x36 18x41 | 2350 2390 | 22x42 | 2870 | 25x44 | 3040 | |
| 15000 | 16x36 18x36 | 2350 2420 | 18x36 | 2600 | 22x40 | 2900 | 22x42 | 3150 | - | - | |

*Ripple Current (mA, rms) at 85°C 120Hz



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| Case Size | | φD x L (mm) | | | | | | | | | |
|-----------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------------|----------------|------------|--------|
| | | 50 {63} | | 63 {79} | | 100 {125} | | 160 {200} | | 200 {250} | |
| µF | W.V. {S.V.} | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.1 | 5x11 | 1.3 | 5x11 | 1.3 | 5x11 | 1.3 | - | - | - | - | - |
| 0.22 | 5x11 | 2.9 | 5x11 | 2.9 | 5x11 | 2.9 | - | - | - | - | - |
| 0.33 | 5x11 | 5 | 5x11 | 5 | 5x11 | 5 | - | - | - | - | - |
| 0.47 | 5x11 | 10 | 5x11 | 10 | 5x11 | 10 | 5x11 | 12 | 5x11 | 12 | |
| 1 | 5x11 | 16 | 5x11 | 16 | 5x11 | 16 | 5x11 | 17 | 6.3x11 | 17 | |
| 2.2 | 5x11 | 20 | 5x11 | 24 | 5x11 | 30 | 6.3x11 | 33 | 6.3x11 | 33 | |
| 3.3 | 5x11 | 35 | 5x11 | 35 | 5x11 | 38 | 6.3x11 | 40 | 6.3x11 | 40 | |
| 4.7 | 5x11 | 42 | 5x11 | 45 | 5x11 | 45 | 6.3x11 8x11 | 46 48 | 8x11 | 51 | |
| 6.8 | 5x11 | 47 | 5x11 | 50 | 6.3x11 | 54 | 8x11 | 56 | 10x12 | 63 | |
| 10 | 5x11 | 65 | 5x11 | 70 | 6.3x11 | 78 | 8x11 10x12 | 80 82 | 10x12 10x15 | 84 90 | |
| 22 | 5x11 | 100 | 5x11 6.3x11 | 105 115 | 6.3x11 8x11 | 120 125 | 10x15 | 130 | 10x20 | 135 | |
| 33 | 5x11 6.3x11 | 120 125 | 6.3x11 8x11 | 130 140 | 8x11 10x12 | 170 180 | 10x20 | 200 | 13x21 | 220 | |
| 47 | 6.3x11 | 150 | 6.3x11 8x11 | 170 180 | 10x12 10x15 | 190 200 | 13x21 | 220 | 13x21 13x26 | 270 280 | |
| 68 | 8x11 | 168 | 8x11 | 210 | 10x15 | 225 | 13x26 | 270 | 16x26 | 340 | |
| 100 | 8x11 | 250 | 8x11 | 300 | 10x20 | 390 | 13x26 16x26 | 400 450 | 16x26 | 570 | |
| 220 | 10x12 10x15 | 410 440 | 10x17 10x20 | 490 520 | 13x26 16x26 | 580 600 | 16x36 | 810 | 18x36 | 860 | |
| 330 | 10x17 10x20 | 520 580 | 13x21 | 680 | 16x26 | 780 | 18x31 | 1090 | 18x36 | 1200 | |
| 470 | 10x20 13x21 | 730 760 | 13x26 16x26 | 880 900 | 16x26 16x31 | 1000 1100 | 18x41 | 1300 | 22x42 | 1360 | |
| 560 | 13x21 | 825 | 16x26 | 980 | 16x36 | 1175 | - | - | - | - | |
| 680 | 13x26 | 950 | 16x26 | 1070 | 16x36 | 1275 | - | - | - | - | |
| 820 | 13x26 | 1070 | 16x26 | 1190 | 18x31 | 1290 | - | - | - | - | |
| 1000 | 13x26 16x26 | 1150 1250 | 16x26 16x36 | 1300 1350 | 18x41 | 1550 | - | - | - | - | |
| 1500 | 16x31 | 1700 | 18x31 | 1800 | 22x42 | 1850 | - | - | - | - | |
| 2200 | 16x36 18x36 | 1900 2090 | 18x36 | 2200 | 25x44 | 2400 | - | - | - | - | |
| 2700 | 18x36 | 2170 | 22x42 | 2275 | - | - | - | - | - | - | |
| 3300 | 18x36 | 2280 | 22x42 | 2360 | - | - | - | - | - | - | |
| 4700 | 22x42 | 2500 | 22x41 25x44 | 2560 2800 | - | - | - | - | - | - | |
| 5600 | 25x41 | 2760 | - | - | - | - | - | - | - | - | |
| 6800 | 25x44 | 3040 | - | - | - | - | - | - | - | - | |
| 8200 | 25x44 | 3140 | - | - | - | - | - | - | - | - | |
| 10000 | 25x44 | 3300 | - | - | - | - | - | - | - | - | |

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| Case Size | | ΦD x L (mm) | | | | | | | |
|-----------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|--------|
| μF | W.V. (S.V.) | 250 {300} | | 350 {400} | | 400 {450} | | 450 {500} | |
| | | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.47 | 5x11 | 12 | 6.3x11 | 15 | 6.3x11 | 15 | 6.3x11 | 15 | |
| 1 | 6.3x11 | 17 | 6.3x11 | 20 | 8x11 | 22 | 8x11 | 22 | |
| 2.2 | 8x11 | 36 | 10x12 | 39 | 10x12 | 39 | 10x12 | 39 | |
| 3.3 | 8x11 | 43 | 10x12 | 50 | 10x12 10x15 | 51 53 | 10x15 10x20 | 53 55 | |
| 4.7 | 10x12 | 51 | 10x12 10x15 | 63 66 | 10x15 | 69 | 10x20 | 75 | |
| 6.8 | 10x12 | 70 | 10x15 | 79 | 10x15 | 85 | 10x20 | 88 | |
| 10 | 10x15 | 90 | 10x20 | 110 | 13x21 | 115 | 13x21 13x26 | 120 130 | |
| 22 | 10x20 | 160 | 13x26 | 180 | 16x26 | 195 | 16x26 16x31 | 200 220 | |
| 33 | 13x21 13x26 | 230 235 | 16x26 | 250 | 16x26 | 275 | 16x36 | 285 | |
| 47 | 13x26 | 300 | 16x31 | 325 | 16x31 | 350 | 16x36 | 400 | |
| 68 | 16x26 | 360 | 16x31 | 395 | 16x36 | 415 | 18x36 | 430 | |
| 100 | 16x31 | 600 | 18x36 | 660 | 18x36 | 800 | - | - | |

*Ripple Current (mA, rms) at 85°C 120Hz