

LK SERIES

- Standard series General purposes
- Endurance :85°C 2000 hours
- RoHS Compliant

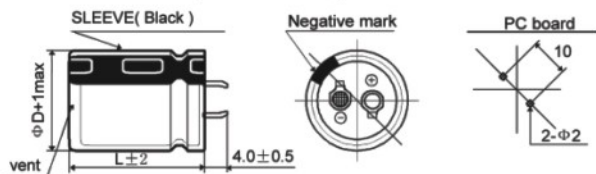


SPECIFICATIONS

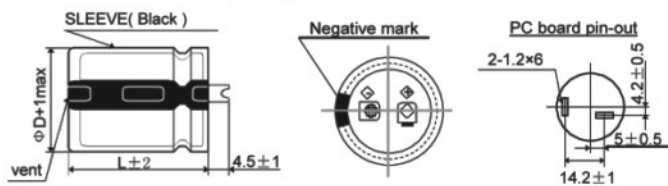
| Items                                                  | Characteristics                                                                                                                                                                       |                                      |      |      |      |      |      |      |      |             |             |                  |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|------|------|------|------|------|------|-------------|-------------|------------------|
| Category                                               |                                                                                                                                                                                       |                                      |      |      |      |      |      |      |      |             |             |                  |
| Temperature Range                                      | -40~+85℃                                                                                                                                                                              |                                      |      |      |      |      |      |      |      |             | -25~+85℃    |                  |
| Rated Voltage Range                                    | 10~100V.DC                                                                                                                                                                            |                                      |      |      |      |      |      |      |      |             | 160~450V.DC |                  |
| Capacitance Tolerance                                  | ± 20% (M) (at 20℃ , 120Hz)                                                                                                                                                            |                                      |      |      |      |      |      |      |      |             |             |                  |
| Leakage Current                                        | $I \leq 3 \sqrt{CV}$<br>Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)                                            |                                      |      |      |      |      |      |      |      |             |             |                  |
| Dissipation Factor (tanδ )                             | Rated voltage (Vdc)                                                                                                                                                                   | 10V                                  | 16V  | 25V  | 35V  | 50V  | 63V  | 80V  | 100V | 160 to 400V | 420 to 450V | (at 20℃ , 120Hz) |
|                                                        | tanδ (Max.)                                                                                                                                                                           | 0.50                                 | 0.40 | 0.30 | 0.25 | 0.20 | 0.15 | 0.15 | 0.15 | 0.15        | 0.15        |                  |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated voltage (Vdc)                                                                                                                                                                   | 10V                                  | 16V  | 25V  | 35V  | 50V  | 63V  | 80V  | 100V | 160 to 400V | 420 to 450V | (at 120Hz)       |
|                                                        | Z(-25℃ )/Z(+20℃ )                                                                                                                                                                     | 4                                    | 4    | 3    | 3    | 2    | 2    | 2    | 2    | 4           | 8           |                  |
|                                                        | Z(-40℃ )/Z(+20℃ )                                                                                                                                                                     | 15                                   | 15   | 10   | 8    | 6    | 6    | 5    | 5    | -           | -           |                  |
| Endurance                                              | The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85℃ |                                      |      |      |      |      |      |      |      |             |             |                  |
|                                                        | Capacitance change                                                                                                                                                                    | ≤20% of the initial value            |      |      |      |      |      |      |      |             |             |                  |
|                                                        | D.F. (tanδ )                                                                                                                                                                          | ≤200% of the initial specified value |      |      |      |      |      |      |      |             |             |                  |
|                                                        | Leakage current                                                                                                                                                                       | ≤The initial specified value         |      |      |      |      |      |      |      |             |             |                  |
| Shelf Life                                             | The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 85℃ without voltage applied.                           |                                      |      |      |      |      |      |      |      |             |             |                  |
|                                                        | Capacitance change                                                                                                                                                                    | ≤20% of the initial value            |      |      |      |      |      |      |      |             |             |                  |
|                                                        | D.F. (tanδ )                                                                                                                                                                          | ≤150% of the initial specified value |      |      |      |      |      |      |      |             |             |                  |
|                                                        | Leakage current                                                                                                                                                                       | ≤200% The initial specified value    |      |      |      |      |      |      |      |             |             |                  |

DIMENSIONS [mm]

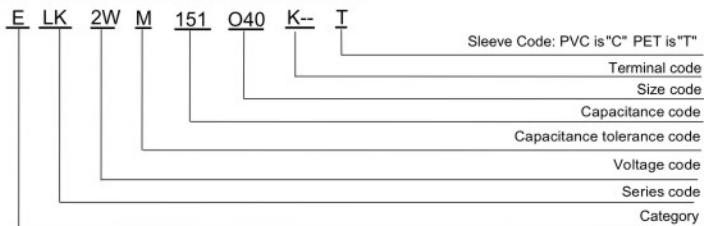
- Terminal Code : K (Φ 22 to Φ 35) : Standard



- Terminal Code : L (Φ 35)



PART NUMBERING SYSTEM



※ Sleeve Code and Terminal Code should follow the part number system

RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current (Hz)

| W.V     | 120  | 1K   | 10K  | 100K |
|---------|------|------|------|------|
| 10~50   | 1.00 | 1.03 | 1.05 | 1.08 |
| 63~100  | 1.00 | 1.07 | 1.13 | 1.19 |
| 160~250 | 1.00 | 1.32 | 1.45 | 1.50 |
| 315~450 | 1.00 | 1.30 | 1.41 | 1.43 |

The endurance of capacitors is shortened with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

# LK SERIES

## STANDARD RATINGS

| Rated Voltage |       | 10(1A) |       |      |       | 16(1C) |      |       |       |
|---------------|-------|--------|-------|------|-------|--------|------|-------|-------|
| UF            | ΦD    | Φ22    | Φ25   | Φ30  | Φ35   | Φ22    | Φ25  | Φ30   | Φ35   |
| 6800          |       |        |       |      |       |        |      |       |       |
| 8200          |       |        |       |      |       | 22×25  | 2.56 |       |       |
| 10000         |       |        |       |      |       | 22×30  | 2.81 |       |       |
| 12000         | 22×25 | 2.41   |       |      |       | 22×30  | 3.31 | 25×25 | 2.96  |
| 15000         | 22×30 | 2.88   | 25×25 | 2.88 |       | 22×35  | 3.69 | 25×30 | 3.64  |
| 18000         | 22×35 | 3.22   | 25×30 | 3.08 |       | 22×40  | 3.98 | 25×35 | 3.98  |
| 22000         | 22×40 | 3.79   | 25×30 | 3.66 | 30×25 | 3.53   |      | 30×30 | 4.38  |
| 27000         | 22×45 | 4.04   | 25×35 | 4.04 | 30×30 | 3.99   |      | 30×35 | 4.82  |
| 33000         | 22×50 | 4.58   | 25×40 | 4.56 | 30×30 | 4.58   |      | 30×40 | 5.38  |
| 39000         |       |        | 25×45 | 5.29 | 30×35 | 5.21   |      | 30×45 | 6.11  |
| 47000         |       |        | 25×50 | 5.78 | 30×40 | 5.78   |      | 30×50 | 6.80  |
| 56000         |       |        |       |      | 35×30 | 5.05   |      |       | 35×35 |
| 68000         |       |        |       |      | 35×35 | 5.55   |      |       | 35×40 |
| 82000         |       |        |       |      | 35×40 | 7.48   |      |       | 35×45 |
|               |       |        |       |      | 35×50 | 8.50   |      |       |       |

| Rated Voltage |       | 25(1E) |       |      |       | 35(1V) |      |       |       |
|---------------|-------|--------|-------|------|-------|--------|------|-------|-------|
| UF            | ΦD    | Φ22    | Φ25   | Φ30  | Φ35   | Φ22    | Φ25  | Φ30   | Φ35   |
| 2700          |       |        |       |      |       |        |      |       |       |
| 3300          |       |        |       |      |       |        |      |       |       |
| 3900          |       |        |       |      |       | 22×25  | 2.22 |       |       |
| 4700          |       |        |       |      |       | 22×30  | 2.46 | 25×25 | 2.43  |
| 5600          | 22×25 | 2.31   |       |      |       | 22×35  | 2.79 | 25×30 | 2.75  |
| 6800          | 22×30 | 2.56   |       |      |       | 22×40  | 2.89 | 25×30 | 2.89  |
| 8200          | 22×35 | 2.81   | 25×25 | 2.78 |       | 22×45  | 3.47 | 25×35 | 3.33  |
| 10000         | 22×35 | 3.18   | 25×30 | 3.16 |       | 22×50  | 3.59 | 25×40 | 3.59  |
| 12000         | 22×40 | 3.53   | 25×35 | 3.48 | 30×25 | 3.53   |      | 30×35 | 4.01  |
| 15000         | 22×50 | 4.08   | 25×40 | 4.00 | 30×30 | 4.00   |      | 30×40 | 4.80  |
| 18000         |       |        | 25×45 | 4.68 | 30×35 | 4.68   |      | 30×45 | 5.18  |
| 22000         |       |        |       |      | 35×30 | 4.68   |      |       | 35×35 |
| 27000         |       |        |       |      | 35×35 | 5.20   |      |       | 35×40 |
| 33000         |       |        |       |      | 35×40 | 6.02   |      |       | 35×45 |
| 39000         |       |        |       |      | 35×45 | 6.75   |      |       | 35×50 |
|               |       |        |       |      | 35×50 | 7.56   |      |       |       |

| Rated Voltage |       | 50(1H) |       |      |       | 63(1J) |      |       |       |
|---------------|-------|--------|-------|------|-------|--------|------|-------|-------|
| UF            | ΦD    | Φ22    | Φ25   | Φ30  | Φ35   | Φ22    | Φ25  | Φ30   | Φ35   |
| 1500          |       |        |       |      |       |        |      |       |       |
| 1800          |       |        |       |      |       | 22×25  | 1.90 |       |       |
| 2200          | 22×25 | 1.93   |       |      |       | 22×30  | 2.35 | 25×25 | 2.30  |
| 2700          | 22×30 | 2.21   |       |      |       | 22×35  | 2.50 | 25×30 | 2.49  |
| 3300          | 22×30 | 2.41   | 25×25 | 2.38 |       | 22×40  | 2.69 | 25×30 | 2.69  |
| 3900          | 22×35 | 2.72   | 25×30 | 2.68 |       | 22×45  | 3.10 | 25×35 | 3.09  |
| 4700          | 22×40 | 3.01   | 25×30 | 3.03 | 30×25 | 3.01   |      | 30×30 | 3.37  |
| 5600          | 22×45 | 3.43   | 25×35 | 3.37 | 30×30 | 3.43   |      | 30×35 | 3.81  |
| 6800          | 22×50 | 3.94   | 25×40 | 3.87 | 30×35 | 3.87   |      | 30×40 | 4.41  |
| 8200          |       |        | 25×45 | 4.37 | 30×35 | 4.42   |      | 30×45 | 4.90  |
| 10000         |       |        |       |      | 35×30 | 4.41   |      | 30×50 | 5.49  |
| 12000         |       |        |       |      | 35×35 | 4.92   |      |       | 35×35 |
| 15000         |       |        |       |      | 35×40 | 5.60   |      |       | 35×40 |
| 18000         |       |        |       |      | 35×45 | 6.44   |      |       | 35×50 |
|               |       |        |       |      | 35×50 | 6.71   |      |       |       |

| Rated Voltage |       | 80(1B) |       |      |       | 100(1K) |      |       |       |
|---------------|-------|--------|-------|------|-------|---------|------|-------|-------|
| UF            | ΦD    | Φ22    | Φ25   | Φ30  | Φ35   | Φ22     | Φ25  | Φ30   | Φ35   |
| 680           |       |        |       |      |       |         |      |       |       |
| 820           |       |        |       |      |       | 22×25   | 1.86 |       |       |
| 1000          |       |        |       |      |       | 22×30   | 2.02 |       |       |
| 1200          | 22×25 | 1.77   |       |      |       | 22×30   | 2.12 | 25×25 | 2.10  |
| 1500          | 22×30 | 2.01   |       |      |       | 22×35   | 2.45 | 25×30 | 2.43  |
| 1800          | 22×35 | 2.25   | 25×25 | 2.26 |       | 22×40   | 2.77 | 25×35 | 2.77  |
| 2200          | 22×40 | 2.53   | 25×30 | 2.53 | 30×25 | 2.50    |      | 30×30 | 3.10  |
| 2700          | 22×45 | 2.93   | 25×35 | 2.93 | 30×30 | 2.91    |      | 30×35 | 3.60  |
| 3300          | 22×50 | 3.25   | 25×40 | 3.25 | 30×30 | 3.23    |      | 30×40 | 4.05  |
| 3900          |       |        | 25×45 | 3.62 | 30×35 | 3.62    |      | 30×45 | 4.60  |
| 4700          |       |        | 25×50 | 4.28 | 30×40 | 4.15    |      | 30×50 | 5.13  |
| 5600          |       |        |       |      | 35×30 | 4.10    |      |       | 35×35 |
| 6800          |       |        |       |      | 35×35 | 4.51    |      |       | 35×40 |
| 8200          |       |        |       |      | 35×40 | 5.14    |      |       | 35×45 |
|               |       |        |       |      | 35×45 | 5.83    |      |       | 35×50 |

Case Size (ΦD×L)

Ripple current(Arms/85℃,120Hz)

LK SERIES

STANDARD RATINGS

| Rated Voltage |       | 160(2C) |       |      |       | 180(2L) |       |       |       |
|---------------|-------|---------|-------|------|-------|---------|-------|-------|-------|
| UF            | ΦD    | Φ22     | Φ25   | Φ30  | Φ35   | Φ22     | Φ25   | Φ30   | Φ35   |
| 270           |       |         |       |      |       |         |       |       |       |
| 330           |       |         |       |      |       |         |       |       |       |
| 390           | 22×25 | 1.55    |       |      |       | 22×25   | 1.42  |       |       |
| 470           | 22×30 | 1.77    | 25×25 | 1.77 |       | 22×30   | 1.61  |       |       |
| 560           | 22×35 | 2.05    | 25×30 | 2.05 |       | 22×35   | 1.80  | 25×25 | 1.80  |
| 680           | 22×40 | 2.24    | 25×30 | 2.22 | 30×25 | 2.09    | 25×30 | 2.05  |       |
| 820           | 22×45 | 2.55    | 25×35 | 2.52 | 30×30 | 22×40   | 2.36  | 25×35 | 2.34  |
| 1000          | 22×50 | 2.88    | 25×40 | 2.86 | 30×30 | 22×45   | 2.72  | 25×35 | 2.58  |
| 1200          |       |         | 25×45 | 3.27 | 30×35 |         | 25×45 | 2.91  | 30×35 |
| 1500          |       |         |       |      | 30×40 |         | 25×50 | 3.46  | 30×40 |
| 1800          |       |         |       |      | 30×40 |         |       | 3.38  | 35×30 |
| 2200          |       |         |       |      | 30×45 |         |       | 3.90  | 35×35 |
| 2700          |       |         |       |      | 30×45 |         |       | 4.33  | 35×40 |
|               |       |         |       |      |       |         |       |       | 4.32  |
|               |       |         |       |      |       |         |       |       | 4.60  |
|               |       |         |       |      |       |         |       |       | 5.05  |

| Rated Voltage |       | 200(2D) |       |      |       | 220(2N) |       |       |       |
|---------------|-------|---------|-------|------|-------|---------|-------|-------|-------|
| UF            | ΦD    | Φ22     | Φ25   | Φ30  | Φ35   | Φ22     | Φ25   | Φ30   | Φ35   |
| 180           |       |         |       |      |       |         |       |       |       |
| 220           |       |         |       |      |       | 22×25   | 1.90  |       |       |
| 270           | 22×25 | 1.30    |       |      |       | 22×25   | 1.31  |       |       |
| 330           | 22×25 | 1.44    |       |      |       | 22×30   | 1.58  | 25×25 | 1.49  |
| 390           | 22×30 | 1.65    | 25×25 | 1.63 |       | 22×35   | 1.69  | 25×30 | 1.71  |
| 470           | 22×35 | 1.88    | 25×30 | 1.86 |       | 22×40   | 1.99  | 25×30 | 1.95  |
| 560           | 22×40 | 2.08    | 25×30 | 2.05 | 30×25 | 22×45   | 2.28  | 25×35 | 2.22  |
| 680           | 22×45 | 2.36    | 25×35 | 2.36 | 30×30 | 22×50   | 2.46  | 25×40 | 2.40  |
| 820           | 22×50 | 2.68    | 25×40 | 2.66 | 30×30 |         | 25×45 | 2.81  | 30×35 |
| 1000          |       |         | 25×45 | 3.12 | 30×35 |         | 25×50 | 3.13  | 30×40 |
| 1200          |       |         | 25×50 | 3.44 | 30×40 |         |       | 3.08  | 35×35 |
| 1500          |       |         |       |      | 30×40 |         |       | 3.60  | 35×40 |
| 1800          |       |         |       |      | 30×50 |         |       |       | 3.51  |
| 2200          |       |         |       |      | 35×35 |         |       |       | 3.92  |
|               |       |         |       |      | 35×40 |         |       |       | 3.87  |
|               |       |         |       |      | 35×45 |         |       |       | 4.37  |
|               |       |         |       |      | 35×50 |         |       |       | 5.00  |

| Rated Voltage |       | 250(2E) |       |      |       | 315(2F) |       |       |       |
|---------------|-------|---------|-------|------|-------|---------|-------|-------|-------|
| UF            | ΦD    | Φ22     | Φ25   | Φ30  | Φ35   | Φ22     | Φ25   | Φ30   | Φ35   |
| 120           |       |         |       |      |       |         |       |       |       |
| 150           |       |         |       |      |       |         |       |       |       |
| 180           |       |         |       |      |       | 22×30   | 1.23  | 25×25 | 1.31  |
| 220           | 22×25 | 1.18    |       |      |       | 22×35   | 1.34  | 25×30 | 1.40  |
| 270           | 22×30 | 1.43    |       |      |       | 22×40   | 1.60  | 25×30 | 1.62  |
| 330           | 22×30 | 1.58    | 25×25 | 1.53 |       | 22×45   | 1.82  | 25×35 | 1.85  |
| 390           | 22×35 | 1.79    | 25×30 | 1.79 |       | 22×50   | 1.97  | 25×40 | 2.01  |
| 470           | 22×40 | 2.05    | 25×35 | 2.05 | 30×25 |         | 25×45 | 2.20  | 30×35 |
| 560           | 22×45 | 2.36    | 25×35 | 2.24 | 30×30 |         |       | 2.50  | 35×35 |
| 680           |       |         | 25×40 | 2.54 | 30×35 |         |       | 2.67  | 35×40 |
| 820           |       |         | 25×50 | 2.87 | 30×35 |         |       | 3.12  | 35×45 |
| 1000          |       |         |       |      | 30×45 |         |       |       | 3.29  |
| 1200          |       |         |       |      | 30×45 |         |       |       | 3.31  |
| 1500          |       |         |       |      | 30×50 |         |       |       | 3.80  |
| 1800          |       |         |       |      |       |         |       |       | 3.66  |
|               |       |         |       |      |       |         |       |       | 4.12  |
|               |       |         |       |      |       |         |       |       | 4.31  |

| Rated Voltage |       | 350(2V) |       |      |       | 385(2P) |       |       |       |
|---------------|-------|---------|-------|------|-------|---------|-------|-------|-------|
| UF            | ΦD    | Φ22     | Φ25   | Φ30  | Φ35   | Φ22     | Φ25   | Φ30   | Φ35   |
| 68            |       |         |       |      |       |         |       |       |       |
| 82            |       |         |       |      |       | 22×25   | 0.70  |       |       |
| 100           |       |         |       |      |       | 22×30   | 0.82  |       |       |
| 120           | 22×25 | 0.99    |       |      |       | 22×30   | 0.91  | 25×25 | 0.95  |
| 150           | 22×30 | 1.44    | 25×25 | 1.16 |       | 22×35   | 1.04  | 25×30 | 1.08  |
| 180           | 22×35 | 1.28    | 25×30 | 1.30 |       | 22×40   | 1.18  | 25×35 | 1.20  |
| 220           | 22×40 | 1.40    | 25×35 | 1.46 | 30×25 | 22×45   | 1.33  | 25×35 | 1.44  |
| 270           | 22×45 | 1.62    | 25×35 | 1.65 | 30×30 |         | 25×40 | 1.56  | 30×30 |
| 330           | 22×50 | 1.78    | 25×40 | 1.88 | 30×35 |         | 25×50 | 1.80  | 30×35 |
| 390           |       |         | 25×45 | 2.04 | 30×35 |         |       | 1.85  | 35×30 |
| 470           |       |         |       |      | 30×40 |         |       | 2.04  | 35×35 |
| 560           |       |         |       |      | 30×40 |         |       | 2.27  | 35×40 |
| 680           |       |         |       |      | 30×45 |         |       |       | 2.57  |
| 820           |       |         |       |      |       |         |       |       | 2.80  |
|               |       |         |       |      |       |         |       |       | 3.00  |
|               |       |         |       |      |       |         |       |       | 3.20  |
|               |       |         |       |      |       |         |       |       | 2.43  |
|               |       |         |       |      |       |         |       |       | 2.62  |
|               |       |         |       |      |       |         |       |       | 3.00  |
|               |       |         |       |      |       |         |       |       | 3.30  |

▲ Case Size (ΦD×L)

▲ Ripple current(Arms/85℃,120Hz)

LK SERIES

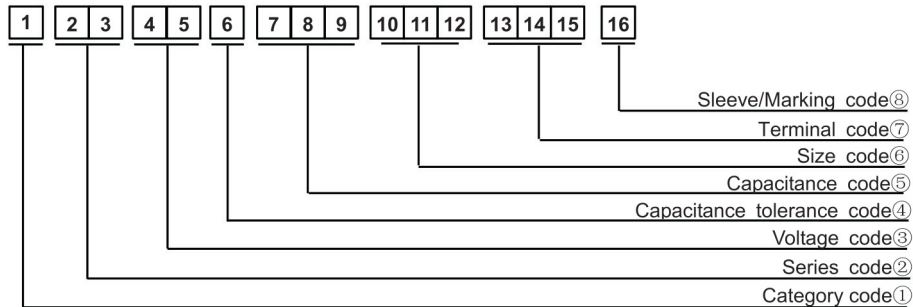
◆ STANDARD RATINGS

| Rated Voltage | 400(2G) |      |       |      |       |      |       |      | 420(2T) |      |       |      |       |      |       |      |
|---------------|---------|------|-------|------|-------|------|-------|------|---------|------|-------|------|-------|------|-------|------|
| UF            | ΦD      | Φ22  |       | Φ25  |       | Φ30  |       | Φ35  | Φ22     |      | Φ25   |      | Φ30   |      | Φ35   |      |
| 68            |         |      |       |      |       |      |       |      |         |      |       |      |       |      |       |      |
| 82            | 22×25   | 0.80 |       |      |       |      |       |      | 22×25   | 0.75 |       |      |       |      |       |      |
| 100           | 22×30   | 0.94 |       |      |       |      |       |      | 22×30   | 0.87 | 25×25 | 0.92 |       |      |       |      |
| 120           | 22×30   | 1.04 | 25×25 | 1.08 |       |      |       |      | 22×30   | 1.01 | 25×25 | 1.03 |       |      |       |      |
| 150           | 22×35   | 1.18 | 25×30 | 1.21 |       |      |       |      | 22×35   | 1.19 | 25×30 | 1.19 | 30×25 | 1.14 |       |      |
| 180           | 22×40   | 1.34 | 25×35 | 1.37 | 30×25 | 1.45 |       |      | 22×45   | 1.36 | 25×35 | 1.37 | 30×25 | 1.35 |       |      |
| 220           | 22×50   | 1.50 | 25×35 | 1.56 | 30×30 | 1.58 |       |      | 22×50   | 1.69 | 25×40 | 1.58 | 30×30 | 1.56 |       |      |
| 270           |         |      | 25×40 | 1.70 | 30×35 | 1.73 |       |      |         |      | 25×45 | 1.83 | 30×35 | 1.72 | 35×30 | 1.76 |
| 330           |         |      | 25×50 | 1.90 | 30×40 | 1.95 | 35×30 | 1.95 |         |      | 25×50 | 2.18 | 30×40 | 1.98 | 35×35 | 2.04 |
| 390           |         |      |       |      | 30×40 | 2.15 | 35×35 | 2.17 |         |      |       |      | 30×45 | 2.34 | 35×35 | 2.26 |
| 470           |         |      |       |      | 30×50 | 2.39 | 35×40 | 2.42 |         |      |       |      | 30×50 | 2.67 | 35×40 | 2.60 |
| 560           |         |      |       |      |       |      | 35×45 | 2.71 |         |      |       |      |       |      | 35×45 | 2.93 |
| 680           |         |      |       |      |       |      | 35×50 | 2.95 |         |      |       |      |       |      |       |      |

| Rated Voltage | 450(2W) |      |       |      |       |      |       |      |
|---------------|---------|------|-------|------|-------|------|-------|------|
| UF            | ΦD      | Φ22  |       | Φ25  |       | Φ30  |       | Φ35  |
| 56            |         |      |       |      |       |      |       |      |
| 68            | 22×25   | 0.68 |       |      |       |      |       |      |
| 82            | 22×30   | 0.82 |       |      |       |      |       |      |
| 100           | 22×35   | 0.90 | 25×25 | 0.92 |       |      |       |      |
| 120           | 22×35   | 1.02 | 25×30 | 1.04 | 30×25 | 1.07 |       |      |
| 150           | 22×40   | 1.12 | 25×35 | 1.19 | 30×30 | 1.23 |       |      |
| 180           | 22×50   | 1.26 | 25×40 | 1.33 | 30×30 | 1.38 |       |      |
| 220           |         |      | 25×45 | 1.51 | 30×35 | 1.56 | 35×30 | 1.58 |
| 270           |         |      | 25×50 | 1.65 | 30×40 | 1.80 | 35×35 | 1.81 |
| 330           |         |      |       |      | 30×45 | 2.02 | 35×35 | 2.05 |
| 390           |         |      |       |      | 30×50 | 2.24 | 35×40 | 2.27 |
| 470           |         |      |       |      |       |      | 35×45 | 2.55 |

▲ Case Size (ΦD×L)      ▲ Ripple current(Arms/85℃,120Hz)

## Part Number System



① Category

| Type                   | Code |
|------------------------|------|
|                        | 1    |
| Electrolytic Capacitor | E    |
| Conductive Polymer     | S    |

② Series code

| Series name | Code |   |
|-------------|------|---|
|             | 2    | 3 |
| WH          | W    | H |
| CD11GE      | G    | E |
| CD11GES     | G    | X |
| CD11GAS     | G    | W |
| CD11GHS     | G    | S |
| NR          | N    | R |
| PZ          | P    | Z |

③ Voltage code

| WV<br>(V <sub>dc</sub> ) | Code |   |
|--------------------------|------|---|
|                          | 4    | 5 |
| 2.5                      | 0    | E |
| 3                        | 0    | D |
| 4                        | 0    | G |
| 6.3                      | 0    | J |
| 6.8                      | 0    | C |
| 7                        | 0    | Q |
| 7.5                      | 0    | A |
| 10                       | 1    | A |
| 12                       | 1    | T |
| 16                       | 1    | C |
| 25                       | 1    | E |
| 35                       | 1    | V |
| 40                       | 1    | G |
| 50                       | 1    | H |
| 63                       | 1    | J |
| 80                       | 1    | B |
| 100                      | 1    | K |
| 160                      | 2    | C |
| 180                      | 2    | L |
| 200                      | 2    | D |
| 220                      | 2    | N |
| 250                      | 2    | E |
| 315                      | 2    | F |
| 350                      | 2    | V |
| 380                      | 2    | P |
| 400                      | 2    | G |
| 420                      | 2    | T |
| 450                      | 2    | W |
| 500                      | 2    | H |
| 550                      | 2    | J |
| 600                      | 2    | K |

④ Capacitance tolerance

| Tol.<br>(%) | Code |
|-------------|------|
|             | 6    |
| -10~+10     | K    |
| -20~+20     | M    |
| -10~+30     | Q    |
| -10~+20     | V    |
| -0~+20      | A    |
| -0~+30      |      |
| -5~+20      | C    |
| -10~-20     | B    |
| -5~+5       | D    |
| -0~+10      | E    |
| -5~-20      | F    |
| -15~+5      | N    |

⑤ Capacitance code

| Cap<br>(μF) | Code |   |   |
|-------------|------|---|---|
|             | 7    | 8 | 9 |
| 0.10        | R    | 1 | 0 |
| 0.22        | R    | 2 | 2 |
| 0.33        | R    | 3 | 3 |
| 0.47        | R    | 4 | 7 |
| 0.68        | R    | 6 | 8 |
| 1           | 0    | 1 | 0 |
| 2.2         | 2    | R | 2 |
| 3.3         | 3    | R | 3 |
| 4.7         | 4    | R | 7 |
| 6.8         | 6    | R | 8 |
| 10          | 1    | 0 | 0 |
| 22          | 2    | 2 | 0 |
| 33          | 3    | 3 | 0 |
| 47          | 4    | 7 | 0 |
| 68          | 6    | 8 | 0 |
| 100         | 1    | 0 | 1 |
| 220         | 2    | 2 | 1 |
| 330         | 3    | 3 | 1 |
| 470         | 4    | 7 | 1 |
| 680         | 6    | 8 | 1 |
| 1000        | 1    | 0 | 2 |
| 2200        | 2    | 2 | 2 |
| 3300        | 3    | 3 | 2 |
| 4700        | 4    | 7 | 2 |
| 6800        | 6    | 8 | 2 |
| 10000       | 1    | 0 | 3 |
| 22000       | 2    | 2 | 3 |
| 33000       | 3    | 3 | 3 |
| 68000       | 6    | 8 | 3 |

⑥ Size code

| Φ D<br>(mm) | Code |
|-------------|------|
|             | 10   |
| 4           | C    |
| 5           | D    |
| 6.3         | E    |
| 8           | F    |
| 10          | G    |
| 11          | H    |
| 12          | J    |
| 12.5        | W    |
| 13          | K    |
| 14          | X    |
| 16          | L    |
| 18          | M    |
| 19          | Z    |
| 20          | N    |
| 22          | O    |
| 25          | P    |
| 30          | Q    |
| 35          | R    |
| 40          | Y    |
| 51.6        | S    |
| 64.3        | T    |
| 76.9        | U    |
| 91          | V    |
| 100         | A    |

| L<br>(mm) | Code |    |
|-----------|------|----|
|           | 11   | 12 |
| 5         | 0    | 5  |
| 7         | 0    | 7  |
| 11        | 1    | 1  |
| 12        | 1    | 2  |
| 16        | 1    | 6  |
| 20        | 2    | 0  |
| 25        | 2    | 5  |
| 30        | 3    | 0  |
| 35        | 3    | 5  |
| 40        | 4    | 0  |
| 46        | 4    | 6  |
| 50        | 5    | 0  |
| 60        | 6    | 0  |
| 80        | 8    | 0  |
| 100       | A    | 0  |
| 115       | B    | 5  |
| 120       | C    | 0  |
| 130       | D    | 0  |
| 140       | E    | 0  |
| 160       | G    | 0  |
| 200       | K    | 0  |
| 220       | M    | 0  |
| 236       | N    | 6  |
| 250       | P    | 0  |

⑦ Terminal code

| Specification                         | Code | Size |    |
|---------------------------------------|------|------|----|
|                                       | 13   | 14   | 15 |
| Bulk packing                          | O    | -    |    |
| Φ4~8 Taping F=5.0mm                   | P    | 5    | 0  |
| Φ10~12.5 Taping F=5.0mm               | B    | 5    | 0  |
| Lead Cut L=3.5mm                      | C    | 3    | 5  |
| Lead Cut L=11.0mm                     | C    | B    | 0  |
| Lead Forming & Cut L=4.5mm            | F    | -    | -  |
| Kink & Cut L=4.5mm                    | J    | -    | -  |
| Snap-in type Terminal 4.0mm in length | K    | -    | -  |
| Three Terminal                        | T    | -    | -  |
| Ring clip mounting standard design    | A    | 0    | 0  |
| Ring clip mounting special design     | S    | -    | -  |

⑧ Sleeve/Marking code

| Sleeve/Marking | Code |
|----------------|------|
|                | 16   |
| PVC            | C    |
| PET            | T    |
| Dark blue      | B    |
| Big red        | R    |
| Sky-blue       | S    |
| Light blue     | T    |
| Pink           | Z    |
| Black          | H    |
| Purple-blue    | V    |
| Red            | O    |