

RADIAL TYPE

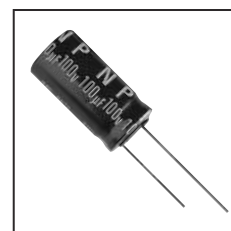
NK

Series

Non Polarity

JAMICON®

- Standard non polarity series for using in polarity reversal circuits.

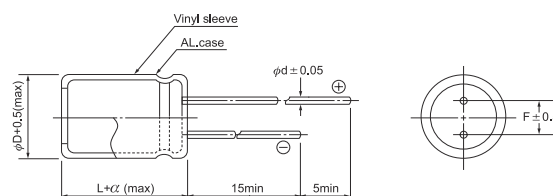


● SPECIFICATION

| Item | Characteristic | | | | | | | | | |
|--|--|---|------|------|------|-----------------------------------|------|------|------|-----|
| Operation Temperature Range | -40 ~ +85°C | | | | | | | | | |
| Rated Working Voltage | 6.3 ~ 100VDC | | | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | | | | |
| Leakage Current (20°C) | $I \leq 0.04CV + 4 (\mu A)$ | | | | | I : Leakage Current (μA) | | | | |
| | *Whichever is greater after 5 minutes | | | | | C : Rated Capacitance (μF) | | | | |
| | | | | | | V : Working Voltage (V) | | | | |
| Surge Voltage (20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | S.V. | 8 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | |
| Dissipation Factor (tan δ) (120Hz 20°C) | Add 0.02 per 1000 μF for more than 1000 μF | | | | | | | | | |
| | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | tan δ | 0.24 | 0.20 | 0.17 | 0.15 | 0.12 | 0.12 | 0.12 | 0.12 | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | | | |
| | Rated Voltage (V) | | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | -25°C / +20°C | | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| | -40°C / +20°C | | 10 | 8 | 6 | 4 | 4 | 3 | 3 | 3 |
| Load Life | After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage) (The polarity need to exchange every 250 hours) | | | | | | | | | |
| | Capacitance Change | $\leq \pm 20\%$ of initial value | | | | | | | | |
| | Dissipation Factor | $\leq 150\%$ of initial specified value | | | | | | | | |
| | Leakage current | \leq initial specified value | | | | | | | | |
| Shelf Life | At +85°C no voltage application after 500 hours the capacitor shall meet the following limits. (with voltage treatment) | | | | | | | | | |
| | Capacitance Change | $\leq \pm 20\%$ of initial value | | | | | | | | |
| | Dissipation Factor | $\leq 200\%$ of initial specified value | | | | | | | | |
| | Leakage current | $\leq 200\%$ of initial specified value | | | | | | | | |

● DIMENSIONS (mm)

| ϕD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|----------|-----|-----|-----|-----|------|-----|-----|
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| α | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 85°C 120Hz

| μF | V(Code) | | 6.3 (0J) | | 10 (1A) | | 16 (1C) | |
|------|---------|------|----------|------|---------|------|---------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 10 | 100 | | | | | → | 5x11 | 47 |
| 22 | 220 | | | | 5x11 | 65 | 6.3x11 | 80 |
| 33 | 330 | | 5x11 | 70 | 6.3x11 | 90 | 8x11.5 | 110 |
| 47 | 470 | | 6.3x11 | 100 | 6.3x11 | 110 | 8x11.5 | 140 |
| 100 | 101 | | 8x11.5 | 170 | 8x11.5 | 180 | 10x16 | 230 |
| 220 | 221 | | 10x12.5 | 260 | 10x16 | 310 | 10x20 | 380 |
| 330 | 331 | | 10x16 | 350 | 10x20 | 420 | 12.5x20 | 460 |
| 470 | 471 | | 10x20 | 460 | 12.5x20 | 500 | 12.5x25 | 600 |
| 1000 | 102 | | 12.5x25 | 740 | 16x31.5 | 950 | 16x31.5 | 1030 |
| 2200 | 222 | | 16x31.5 | 1240 | 16x35.5 | 1350 | 16x31.5 | 1450 |
| 3300 | 332 | | 16x25 | 1540 | 16x31.5 | 1500 | 18x35.5 | 1900 |
| 4700 | 472 | | 16x31.5 | 1660 | 18x35.5 | 2000 | | |
| 6800 | 682 | | 18x35.5 | 2120 | | | | |

| μF | V(Code) | | 25 (1E) | | 35 (1V) | | 50 (1H) | |
|------|---------|------|---------|------|---------|------|---------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 0.47 | R47 | | | | | → | 5x11 | 12 |
| 1 | 010 | | | | | → | 5x11 | 18 |
| 2.2 | 2R2 | | | | | → | 5x11 | 26 |
| 3.3 | 3R3 | | | | | → | 6.3x11 | 37 |
| 4.7 | 4R7 | | 5x11 | 34 | 5x11 | 38 | 6.3x11 | 44 |
| 10 | 100 | | 6.3x11 | 55 | 6.3x11 | 65 | 8x11.5 | 75 |
| 22 | 220 | | 8x11.5 | 100 | 8x11.5 | 110 | 10x12.5 | 120 |
| 33 | 330 | | 8x11.5 | 120 | 10x12.5 | 140 | 10x16 | 160 |
| 47 | 470 | | 10x12.5 | 150 | 10x16 | 190 | 10x20 | 210 |
| 100 | 101 | | 10x20 | 270 | 12.5x20 | 300 | 12.5x25 | 330 |
| 220 | 221 | | 12.5x20 | 400 | 12.5x25 | 490 | 16x31.5 | 580 |
| 330 | 331 | | 16x25 | 570 | 16x25 | 640 | 16x35.5 | 750 |
| 470 | 471 | | 16x31.5 | 760 | 16x31.5 | 840 | 16x31.5 | 840 |
| 1000 | 102 | | 16x31.5 | 1100 | 16x35.5 | 1300 | | |
| 2200 | 222 | | 18x35.5 | 1730 | | | | |

| μF | V(Code) | | 63 (1J) | | 100 (2A) | |
|------|---------|------|---------|------|----------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. |
| 0.47 | R47 | | | → | 5x11 | 12 |
| 1 | 010 | | | → | 5x11 | 18 |
| 2.2 | 2R2 | | 5x11 | 26 | 6.3x11 | 30 |
| 3.3 | 3R3 | | 6.3x11 | 37 | 8x11.5 | 43 |
| 4.7 | 4R7 | | 6.3x11 | 44 | 8x11.5 | 50 |
| 10 | 100 | | 8x11.5 | 75 | 10x16 | 85 |
| 22 | 220 | | 10x16 | 130 | 12.5x20 | 140 |
| 33 | 330 | | 10x20 | 170 | 12.5x25 | 190 |
| 47 | 470 | | 12.5x20 | 210 | 16x25 | 240 |
| 100 | 101 | | 16x25 | 350 | 16x31.5 | 390 |
| 220 | 221 | | 16x31.5 | 580 | 18x35.5 | 650 |
| 330 | 331 | | 18x35.5 | 800 | 18x35.5 | 800 |
| 470 | 471 | | 18x35.5 | 950 | 18x40 | 1000 |

All blank voltage on sleeve marking is the same voltage as " → "point to.