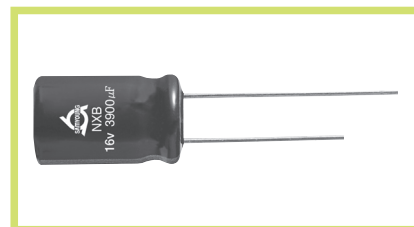
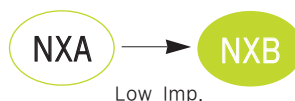


NXB Series

• 105°C 2,000~5,000Hrs assured.

- Non-solvent proof.
- Very Low Impedance.
- For SMPS, IP-Board, Adaptor, Noise Filter, Charger.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

| Item | Characteristics | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------------------|-----------|------------------|-------------|------|-------------|------|-------------|---------|-------------|-----------|------|------|------|------|------|------|------|------|------|
| Rated Voltage Range | 6.3 ~ 120 V _{DC} | | | | | | | | | | | | | | | | | | | | |
| Operating Temperature Range | -40 ~ +105°C | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | I = 0.01CV(μA) or 3μA, whichever is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V _{DC}) (at 20°C, 2 minutes) | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(Tanδ) | <table border="1"> <tr> <td>Rated voltage(V_{DC})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>120</td> </tr> <tr> <td>Tanδ(Max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.08</td> </tr> </table> <p>When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)</p> | Rated voltage(V _{DC}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 120 | Tanδ(Max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.08 |
| Rated voltage(V _{DC}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 120 | | | | | | | | | | | | |
| Tanδ(Max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.08 | | | | | | | | | | | | |
| Temperature Characteristics (Max. Impedance ratio) | <table border="1"> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> </tr> </table> <p>(at 120Hz)</p> | Z(-25°C)/Z(20°C) | 2 | Z(-40°C)/Z(20°C) | 3 | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 2 | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 3 | | | | | | | | | | | | | | | | | | | | |
| Load Life | <p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) at 105°C for the specified period of time.</p> <table border="1"> <tr> <th>Case Size(∅D)</th> <th>Life Time</th> </tr> <tr> <td>∅5, 6.3</td> <td>2,000 hours</td> </tr> <tr> <td>∅8</td> <td>3,000 hours</td> </tr> <tr> <td>∅10</td> <td>4,000 hours</td> </tr> <tr> <td>∅12.5 ~</td> <td>5,000 hours</td> </tr> </table> <p>Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p> | Case Size(∅D) | Life Time | ∅5, 6.3 | 2,000 hours | ∅8 | 3,000 hours | ∅10 | 4,000 hours | ∅12.5 ~ | 5,000 hours | | | | | | | | | | |
| Case Size(∅D) | Life Time | | | | | | | | | | | | | | | | | | | | |
| ∅5, 6.3 | 2,000 hours | | | | | | | | | | | | | | | | | | | | |
| ∅8 | 3,000 hours | | | | | | | | | | | | | | | | | | | | |
| ∅10 | 4,000 hours | | | | | | | | | | | | | | | | | | | | |
| ∅12.5 ~ | 5,000 hours | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | <p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p> | | | | | | | | | | | | | | | | | | | | |
| Others | Satisfied characteristics KS C IEC 60384-4 | | | | | | | | | | | | | | | | | | | | |

DIMENSIONS OF NXB Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK

| | | | | | | | |
|-----|---------------|-----|-----|--------------|------|-----|-----|
| ∅D | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| ∅d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| ∅D' | ∅D + 0.5 max. | | | | | | |
| L' | L + 1.5 max. | | | L + 2.0 max. | | | |

※ ∅10 x 12L, L' ≤ L + 1.5

RATINGS OF NXB Series

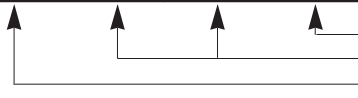
| V _{DC} ∅D×L(mm) | 6.3 | | | | 10 | | | | 16 | | | |
|-----------------------------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|
| | μF | IMP. | | Ripple | μF | IMP. | | Ripple | μF | IMP. | | Ripple |
| | | 20°C | -10°C | | | 20°C | -10°C | | | 20°C | -10°C | |
| 5 × 11 | 220 | 0.30 | 1.0 | 250 | 150 | 0.30 | 1.00 | 250 | 100 | 0.30 | 1.0 | 250 |
| 6.3 × 11 | 470 | 0.13 | 0.41 | 405 | 330 | 0.13 | 0.41 | 405 | 100 | 0.15 | 0.41 | 385 |
| | | | | | | | | | 220 | 0.13 | 0.36 | 405 |
| 6.3 × 15 | 560 | 0.10 | 0.32 | 646 | 470 | 0.10 | 0.32 | 646 | 330 | 0.10 | 0.32 | 646 |
| 8 × 11.5 | 820 | 0.072 | 0.22 | 760 | 330 | 0.094 | 0.28 | 600 | 470 | 0.072 | 0.22 | 760 |
| | | | | | 680 | 0.072 | 0.22 | 760 | | | | |
| 8 × 15 | 1,200 | 0.060 | 0.18 | 818 | 1,000 | 0.060 | 0.18 | 818 | 680 | 0.060 | 0.18 | 818 |
| 8 × 20 | 1,500 | 0.050 | 0.16 | 1,260 | 1,200 | 0.050 | 0.16 | 1,260 | 1,000 | 0.050 | 0.16 | 1,260 |
| 10 × 12 | 1,200 | 0.053 | 0.16 | 1,360 | 820 | 0.053 | 0.16 | 1,360 | 680 | 0.053 | 0.16 | 1,360 |
| | | | | | 1000 | 0.053 | 0.16 | 1,360 | | | | |
| 10 × 12.5 | 1,200 | 0.053 | 0.16 | 1,360 | 820 | 0.053 | 0.16 | 1,360 | 680 | 0.053 | 0.16 | 1,360 |
| | | | | | 1000 | 0.053 | 0.16 | 1,360 | | | | |
| 10 × 16 | 1,800 | 0.038 | 0.12 | 1,430 | 1,000 | 0.038 | 0.12 | 1,430 | 1,000 | 0.038 | 0.12 | 1,430 |
| | | | | | 1,500 | 0.038 | 0.12 | 1,430 | | | | |
| 10 × 20 | 2,200 | 0.023 | 0.069 | 1,820 | 1,500 | 0.023 | 0.069 | 1,820 | 1,500 | 0.023 | 0.069 | 1,820 |
| 10 × 25 | 3,300 | 0.022 | 0.066 | 2,150 | 2,200 | 0.022 | 0.066 | 2,150 | 1,800 | 0.022 | 0.066 | 2,150 |
| 12.5 × 16 | 1,800 | 0.031 | 0.078 | 1,452 | 1,500 | 0.031 | 0.078 | 1,452 | 1,000 | 0.031 | 0.078 | 1,452 |
| 12.5 × 20 | 3,900 | 0.021 | 0.053 | 2,360 | 3,300 | 0.021 | 0.053 | 2,360 | 2,200 | 0.021 | 0.053 | 2,360 |
| 12.5 × 25 | 4,700 | 0.020 | 0.050 | 2,770 | 3,900 | 0.020 | 0.050 | 2,770 | 2,700 | 0.020 | 0.050 | 2,770 |
| 12.5 × 30 | 5,600 | 0.018 | 0.046 | 3,290 | 4,700 | 0.018 | 0.046 | 3,290 | 3,300 | 0.018 | 0.046 | 3,290 |
| 12.5 × 35 | 6,800 | 0.017 | 0.044 | 3,400 | 5,600 | 0.017 | 0.044 | 3,400 | 3,900 | 0.017 | 0.044 | 3,400 |
| 16 × 15 | 2,700 | 0.040 | 0.101 | 1,375 | 1,800 | 0.040 | 0.101 | 1,375 | 1,200 | 0.040 | 0.101 | 1,375 |
| 16 × 20 | 5,600 | 0.021 | 0.053 | 3,140 | 4,700 | 0.021 | 0.053 | 3,140 | 3,300 | 0.021 | 0.053 | 3,140 |
| 16 × 25 | 6,800 | 0.019 | 0.051 | 3,460 | 5,600 | 0.019 | 0.051 | 3,460 | 4,700 | 0.019 | 0.051 | 3,460 |
| 16 × 31.5 | 8,200 | 0.013 | 0.035 | 3,680 | 6,800 | 0.013 | 0.035 | 3,680 | 5,600 | 0.013 | 0.035 | 3,680 |
| 18 × 20 | 5,600 | 0.020 | 0.052 | 3,265 | 4,700 | 0.020 | 0.052 | 3,265 | 3,300 | 0.020 | 0.052 | 3,265 |
| 18 × 25 | 8,200 | 0.018 | 0.049 | 3,611 | 5,600 | 0.018 | 0.049 | 3,611 | 3,900 | 0.018 | 0.049 | 3,611 |

| V _{DC} ∅D×L(mm) | 25 | | | | 35 | | | | 50 | | | | | | | |
|-----------------------------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
| | μF | IMP. | | Ripple | μF | IMP. | | Ripple | μF | IMP. | | Ripple | | | | |
| | | 20°C | -10°C | | | 20°C | -10°C | | | 20°C | -10°C | | | | | |
| 5 × 11 | 68 | 0.30 | 1.0 | 250 | 47 | 0.30 | 1.0 | 250 | 1 | 2.50 | 8.68 | 53 | | | | |
| | | | | | | | | | 2.2 | 2.50 | 8.68 | 56 | | | | |
| | | | | | | | | | 4.7 | 1.50 | 5.21 | 82 | | | | |
| | | | | | | | | | 10 | 1.0 | 3.47 | 250 | | | | |
| | | | | | | | | | 22 | 0.30 | 1.04 | 250 | | | | |
| | | | | | | | | | 27 | 0.30 | 1.04 | 250 | | | | |
| 6.3 × 11 | 150 | 0.13 | 0.41 | 405 | 100 | 0.13 | 0.41 | 405 | 47 | 0.14 | 0.50 | 350 | | | | |
| | | | | | | | | | 56 | 0.14 | 0.50 | 385 | | | | |
| 6.3 × 15 | 220 | 0.10 | 0.32 | 646 | 150 | 0.10 | 0.32 | 646 | 100 | 0.10 | 0.32 | 646 | | | | |
| 8 × 11.5 | 220 | 0.072 | 0.22 | 760 | 150 | 0.072 | 0.22 | 760 | 100 | 0.072 | 0.21 | 724 | | | | |
| 8 × 15 | 390 | 0.060 | 0.18 | 818 | 270 | 0.060 | 0.18 | 818 | 120 | 0.060 | 0.24 | 818 | | | | |
| 8 × 20 | 560 | 0.050 | 0.16 | 1,260 | 390 | 0.050 | 0.16 | 1,260 | 180 | 0.050 | 0.18 | 1,260 | | | | |
| 10 × 12 | 330 | 0.053 | 0.16 | 1,360 | 220 | 0.053 | 0.16 | 1,360 | 150 | 0.061 | 0.18 | 979 | | | | |
| | | | | | | | | | | | | | 470 | 0.053 | 0.16 | 1,360 |
| 10 × 12.5 | 330 | 0.053 | 0.16 | 1,360 | 220 | 0.053 | 0.16 | 1,360 | 150 | 0.061 | 0.18 | 979 | | | | |
| | | | | | | | | | | | | | 470 | 0.053 | 0.16 | 1,360 |
| 10 × 16 | 470 | 0.038 | 0.12 | 1,430 | 470 | 0.038 | 0.12 | 1,430 | 220 | 0.042 | 0.12 | 1,370 | | | | |
| | | | | | | | | | | | | | 680 | 0.038 | 0.12 | 1,430 |
| 10 × 20 | 680 | 0.023 | 0.069 | 1,820 | 560 | 0.023 | 0.069 | 1,820 | 330 | 0.030 | 0.090 | 1,580 | | | | |
| | | | | | | | | | | | | | 820 | 0.023 | 0.069 | 2,000 |
| | | | | | | | | | | | | | 1,000 | 0.025 | 0.075 | 1,900 |
| 10 × 25 | 1,000 | 0.022 | 0.066 | 2,150 | 680 | 0.022 | 0.066 | 2,150 | 470 | 0.028 | 0.085 | 1,870 | | | | |
| 12.5 × 16 | 680 | 0.031 | 0.078 | 1,452 | 470 | 0.031 | 0.078 | 1,452 | 270 | 0.042 | 0.078 | 1,071 | | | | |
| 12.5 × 20 | 1,500 | 0.021 | 0.053 | 2,360 | 1,000 | 0.021 | 0.053 | 2,360 | 470 | 0.027 | 0.068 | 2,050 | | | | |
| 12.5 × 25 | 1,800 | 0.020 | 0.050 | 2,770 | 1,000 | 0.020 | 0.050 | 2,770 | 560 | 0.023 | 0.059 | 2,410 | | | | |
| | | | | | | | | | | | | | 2,200 | 0.020 | 0.050 | 3,000 |
| 12.5 × 30 | 2,200 | 0.018 | 0.046 | 3,290 | 1,500 | 0.018 | 0.046 | 3,290 | 680 | 0.021 | 0.052 | 2,860 | | | | |
| 12.5 × 35 | 2,700 | 0.017 | 0.044 | 3,400 | 1,800 | 0.017 | 0.044 | 3,400 | 820 | 0.019 | 0.051 | 2,960 | | | | |
| 16 × 15 | 820 | 0.040 | 0.101 | 1,375 | 560 | 0.040 | 0.101 | 1,375 | 390 | 0.046 | 0.114 | 1,196 | | | | |
| 16 × 20 | 2,200 | 0.021 | 0.053 | 3,140 | 1,500 | 0.021 | 0.053 | 3,140 | 820 | 0.023 | 0.059 | 2,730 | | | | |
| 16 × 25 | 3,300 | 0.019 | 0.051 | 3,460 | 1,800 | 0.019 | 0.051 | 3,460 | 1,000 | 0.021 | 0.056 | 3,010 | | | | |
| | | | | | 2,200 | 0.019 | 0.051 | 3,460 | | | | | | | | |
| 16 × 31.5 | 3,300 | 0.013 | 0.035 | 3,680 | 2,200 | 0.013 | 0.035 | 3,680 | 1,500 | 0.014 | 0.037 | 3,201 | | | | |
| 18 × 20 | 2,200 | 0.020 | 0.052 | 3,265 | 1,500 | 0.020 | 0.052 | 3,265 | 1,000 | 0.022 | 0.059 | 2,850 | | | | |
| 18 × 25 | 2,700 | 0.018 | 0.049 | 3,611 | 1,800 | 0.018 | 0.049 | 3,611 | 1,200 | 0.020 | 0.053 | 3,140 | | | | |

RATINGS OF NXB Series

| V _{DC} ∅D×L(mm) | 63 | | | |
|-----------------------------|-------|-------|-------|--------|
| | μF | IMP. | | Ripple |
| | | 20°C | -10°C | |
| 5×11 | 10 | 0.45 | 1.8 | 165 |
| 6.3×11 | 33 | 0.30 | 1.2 | 265 |
| 6.3×15 | 47 | 0.25 | 1.0 | 420 |
| 8×11.5 | 47 | 0.20 | 0.80 | 500 |
| | 68 | 0.20 | 0.80 | 500 |
| 10×12 | 68 | 0.16 | 0.64 | 600 |
| 10×12.5 | 68 | 0.16 | 0.64 | 600 |
| 10×16 | 100 | 0.10 | 0.40 | 945 |
| 10×20 | 150 | 0.080 | 0.32 | 1,100 |
| 10×25 | 220 | 0.070 | 0.28 | 1,300 |
| 12.5×20 | 330 | 0.040 | 0.16 | 1,495 |
| 16×20 | 470 | 0.035 | 0.14 | 1,990 |
| 16×25 | 680 | 0.030 | 0.12 | 2,780 |
| 16×31.5 | 1,000 | 0.020 | 0.080 | 2,835 |

| V _{DC} ∅D×L(mm) | 100 | | | | 120 | | | |
|-----------------------------|-----|-------|-------|--------|-----|-------|-------|--------|
| | μF | IMP. | | Ripple | μF | IMP. | | Ripple |
| | | 20°C | -10°C | | | 20°C | -10°C | |
| 5×11 | 3.3 | 2.0 | 8.0 | 125 | | | | |
| 5×11 | 4.7 | 2.0 | 8.0 | 125 | | | | |
| 6.3×11 | 10 | 0.50 | 2.0 | 205 | | | | |
| 6.3×15 | 22 | 0.40 | 1.6 | 300 | | | | |
| 8×11.5 | 22 | 0.30 | 1.2 | 355 | 22 | 0.30 | 1.2 | 472 |
| 10×12 | 33 | 0.25 | 1.0 | 450 | 33 | 0.25 | 1.0 | 599 |
| 10×12.5 | 33 | 0.25 | 1.0 | 450 | 33 | 0.25 | 1.0 | 599 |
| 10×16 | 47 | 0.20 | 0.80 | 580 | 47 | 0.20 | 0.80 | 771 |
| 12.5×20 | 100 | 0.10 | 0.40 | 1,045 | 100 | 0.10 | 0.40 | 1,400 |
| 12.5×25 | 150 | 0.070 | 0.28 | 1,195 | 120 | 0.070 | 0.28 | 1,589 |
| 16×25 | 220 | 0.060 | 0.24 | 1,600 | 220 | 0.060 | 0.24 | 2,128 |
| 16×31.5 | 330 | 0.040 | 0.16 | 1,750 | 270 | 0.040 | 0.16 | 2,328 |
| | 470 | 0.040 | 0.16 | 1,750 | | | | |
| 18×40 | 820 | 0.030 | 0.12 | 2,060 | 560 | 0.036 | 0.144 | 2,740 |


 Rated Ripple Current (mArms/105°C, 100kHz)
 Impedance (Ω max./100kHz)
 Nominal Capacitance(μF)

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

| Cap.(μF) | Freq.(Hz) | 120 | 1k | 10k | 50k | 100k |
|-------------|-----------|------|------|------|------|------|
| 1 ~ 180 | | 0.40 | 0.75 | 0.90 | 0.95 | 1.00 |
| | | 0.50 | 0.85 | 0.94 | 0.96 | 1.00 |
| 220 ~ 560 | | 0.60 | 0.87 | 0.95 | 0.97 | 1.00 |
| | | 0.75 | 0.90 | 0.95 | 0.97 | 1.00 |
| 680 ~ 1,800 | | 0.85 | 0.95 | 0.98 | 0.99 | 1.00 |
| | | | | | | |

NXB Series

单击下面可查看定价，库存，交付和生命周期等信息

[>>SAMYOUNG\(三荣\)](#)