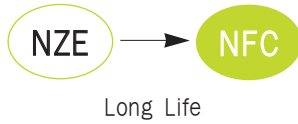


NFC Series

• 105°C 2,000~5,000Hrs assured.

- Non-solvent proof.
- High Ripple, Long Life.
- For SMPS, IP-Board, Adaptor.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

| Item | Characteristics | | | | | | | | | | | | | |
|--|--|---------------------------|---------------------------------|----------------|-----------------|------------|-------------------|-----------------|--------|------------------|-------------------|---|---|---|
| Rated Voltage Range | 160 ~ 400 V _{DC} | 420 ~ 500 V _{DC} | | | | | | | | | | | | |
| Operating Temperature Range | -40 ~ + 105°C | -25 ~ + 105°C | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | | | | | | | |
| Leakage Current | <table border="1"> <thead> <tr> <th>C · V \ Time</th> <th>After 1 minute</th> <th>After 5 minutes</th> </tr> </thead> <tbody> <tr> <td>≤ 1000</td> <td>I = 0.1CV + 40</td> <td>I = 0.03CV + 15</td> </tr> <tr> <td>> 1000</td> <td>I = 0.04CV + 100</td> <td>I = 0.02CV + 25</td> </tr> </tbody> </table> <p>Where, I: Max. Leakage current(μA) C: Nominal capacitance (μF) V: Rated voltage (V_{DC}) (at 20°C)</p> | | C · V \ Time | After 1 minute | After 5 minutes | ≤ 1000 | I = 0.1CV + 40 | I = 0.03CV + 15 | > 1000 | I = 0.04CV + 100 | I = 0.02CV + 25 | | | |
| C · V \ Time | After 1 minute | After 5 minutes | | | | | | | | | | | | |
| ≤ 1000 | I = 0.1CV + 40 | I = 0.03CV + 15 | | | | | | | | | | | | |
| > 1000 | I = 0.04CV + 100 | I = 0.02CV + 25 | | | | | | | | | | | | |
| Dissipation Factor(Tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage(V_{DC})</th> <th>160~250</th> <th>350~500</th> </tr> </thead> <tbody> <tr> <td>Tanδ(Max.)</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> <p>(at 20°C, 120Hz)</p> | | Rated Voltage(V _{DC}) | 160~250 | 350~500 | Tanδ(Max.) | 0.20 | 0.24 | | | | | | |
| Rated Voltage(V _{DC}) | 160~250 | 350~500 | | | | | | | | | | | | |
| Tanδ(Max.) | 0.20 | 0.24 | | | | | | | | | | | | |
| Temperature Characteristics (Max. Impedance ratio) | <table border="1"> <thead> <tr> <th>Rated Voltage(V_{DC})</th> <th>160~250</th> <th>350~400</th> <th>420~500</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>6</td> <td>—</td> </tr> </tbody> </table> <p>(at 120Hz)</p> | | Rated Voltage(V _{DC}) | 160~250 | 350~400 | 420~500 | Z(-25°C)/Z(+20°C) | 3 | 5 | 6 | Z(-40°C)/Z(+20°C) | 6 | 6 | — |
| Rated Voltage(V _{DC}) | 160~250 | 350~400 | 420~500 | | | | | | | | | | | |
| Z(-25°C)/Z(+20°C) | 3 | 5 | 6 | | | | | | | | | | | |
| Z(-40°C)/Z(+20°C) | 6 | 6 | — | | | | | | | | | | | |
| 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) for 5,000 hours at 105°C. (where, 2,000 hours for Ø6.3)</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p> | | | | | | | | | | | | | |
| 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 ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ 500% of the initial specified value</p> | | | | | | | | | | | | | |
| Others | Satisfied characteristics KS C IEC 60384-4 | | | | | | | | | | | | | |

DIMENSIONS OF NFC Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK

| øD | 6.3 | 8 | 10 | 12.5 | 16 | 18 | 20 | 22 | 25.4 |
|-----|---------------|-----|-----|------|--------------|-----|-----|------|------|
| ød | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 |
| F | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 7.5 | 10.0 | 10.0 |
| øD' | øD + 0.5 max. | | | | | | | | |
| L' | L + 1.5max. | | | | L + 2.0 max. | | | | |

※ ø8 x 50L, L' ≤ L + 2.0

RATINGS OF NFC Series

| V _{dc} | Capacitance (μF) | ∅ D × L (mm) | Rated Ripple Current (mA _{rms} /105°C, 120Hz) |
|-----------------|------------------|--------------|--|
| 160 | 22 | 8 × 20 | 135 |
| | | 10 × 20 | 192 |
| | 33 | 10 × 20 | 236 |
| | 47 | 12.5 × 20 | 312 |
| | 68 | 10 × 20 | 380 |
| | | 12.5 × 25 | 409 |
| | 82 | 8 × 50 | 360 |
| | 100 | 16 × 25 | 548 |
| | 150 | 16 × 25 | 701 |
| | 220 | 16 × 31.5 | 876 |
| | 330 | 18 × 31.5 | 1110 |
| | | 22 × 25 | 1120 |
| | 390 | 22 × 30 | 1300 |
| | 470 | 25.4 × 30 | 1520 |
| | 560 | 22 × 35 | 1640 |
| | | 22 × 40 | 1720 |
| | 680 | 22 × 45 | 1970 |
| | | 25.4 × 35 | 1930 |
| 820 | 22 × 50 | 2250 | |
| | 25.4 × 40 | 2220 | |
| 1000 | 25.4 × 50 | 2650 | |
| 200 | 3.3 | 6.3 × 11 | 36 |
| | 10 | 8 × 11.5 | 75 |
| | 22 | 8 × 20 | 135 |
| | | 10 × 20 | 192 |
| | 33 | 12.5 × 20 | 262 |
| | 47 | 12.5 × 20 | 312 |
| | 68 | 8 × 50 | 320 |
| | | 12.5 × 25 | 409 |
| | 82 | 16 × 20 | 462 |
| | 100 | 16 × 25 | 548 |
| | 150 | 16 × 25 | 701 |
| | 220 | 18 × 31.5 | 906 |
| | | 22 × 25 | 910 |
| | 330 | 22 × 30 | 1190 |
| | | 25.4 × 30 | 1270 |
| | 390 | 22 × 35 | 1370 |
| | 470 | 22 × 40 | 1570 |
| | | 25.4 × 35 | 1600 |
| | 560 | 22 × 45 | 1790 |
| | | 22 × 50 | 1860 |
| 25.4 × 40 | | 1830 | |
| 25.4 × 50 | | 2400 | |

| V _{dc} | Capacitance (μF) | ∅ D × L (mm) | Rated Ripple Current (mA _{rms} /105°C, 120Hz) |
|-----------------|------------------|--------------|--|
| 250 | 6.8 | 8 × 11.5 | 70 |
| | 10 | 8 × 20 | 95 |
| | | 10 × 20 | 130 |
| | 22 | 10 × 20 | 193 |
| | | 12.5 × 20 | 214 |
| | 33 | 12.5 × 25 | 285 |
| | 47 | 8 × 50 | 250 |
| | | 12.5 × 25 | 340 |
| | 68 | 16 × 25 | 452 |
| | 100 | 16 × 31.5 | 591 |
| | 150 | 18 × 31.5 | 748 |
| | 180 | 22 × 25 | 780 |
| | 220 | 18 × 35.5 | 936 |
| | | 22 × 30 | 920 |
| | 270 | 22 × 35 | 1070 |
| | | 25.4 × 30 | 1090 |
| | 330 | 20 × 40 | 1196 |
| | | 22 × 40 | 1240 |
| 390 | 25.4 × 35 | 1270 | |
| | 22 × 45 | 1410 | |
| 470 | 25.4 × 40 | 1440 | |
| | 22 × 50 | 1610 | |
| 560 | 25.4 × 50 | 1870 | |
| 350 | 6.8 | 8 × 15 | 65 |
| | 10 | 8 × 20 | 90 |
| | | 10 × 20 | 126 |
| | 22 | 12.5 × 20 | 207 |
| | 33 | 8 × 50 | 245 |
| | | 16 × 20 | 284 |
| | 47 | 16 × 25 | 364 |
| | 68 | 16 × 31.5 | 472 |
| | 100 | 18 × 31.5 | 591 |
| | | 22 × 25 | 530 |
| | 120 | 22 × 30 | 620 |
| | 150 | 18 × 40 | 760 |
| | | 25.4 × 30 | 740 |
| | 180 | 22 × 35 | 800 |
| | 200 | 22 × 40 | 880 |
| | | 25.4 × 35 | 900 |
| | 220 | 22 × 45 | 970 |
| | 270 | 22 × 50 | 1110 |
| 25.4 × 40 | | 1090 | |
| 330 | 25.4 × 50 | 1310 | |

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

| Freq.(Hz) | 120 | 1K | 10K | 50K | 100K |
|-----------|------|------|------|------|------|
| Factor | 1.00 | 1.25 | 1.50 | 1.60 | 1.75 |

RATINGS OF NFC Series

| V _{dc} | Capacitance (μF) | ∅D×L(mm) | Rated Ripple Current (mA _{rms} /105°C, 120Hz) |
|-----------------|------------------|-----------|--|
| 400 | 1 | 6.3 × 11 | 19 |
| | 3.3 | 8 × 11.5 | 42 |
| | 6.8 | 8 × 15 | 66 |
| | 8.2 | 8 × 20 | 80 |
| | 10 | 10 × 16 | 85 |
| | 22 | 12.5 × 25 | 225 |
| | 27 | 8 × 50 | 240 |
| | 33 | 16 × 20 | 284 |
| | 47 | 16 × 25 | 364 |
| | 68 | 16 × 31.5 | 472 |
| | 82 | 18 × 31.5 | 536 |
| | | 22 × 25 | 490 |
| | 100 | 18 × 35.5 | 611 |
| | 120 | 18 × 40 | 680 |
| | | 22 × 30 | 670 |
| | 150 | 18 × 40 | 760 |
| | | 22 × 35 | 750 |
| | 180 | 25.4 × 30 | 760 |
| | | 20 × 40 | 855 |
| | | 22 × 40 | 860 |
| 200 | 25.4 × 35 | 880 | |
| | 22 × 45 | 940 | |
| 220 | 22 × 45 | 996 | |
| | 22 × 50 | 1030 | |
| | 25.4 × 40 | 1010 | |
| 270 | 25.4 × 50 | 1220 | |
| 330 | 25.4 × 50 | 1260 | |
| 420 | 68 | 18 × 31.5 | 500 |
| | 82 | 18 × 31.5 | 560 |
| | | 22 × 25 | 490 |
| | 100 | 18 × 35.5 | 720 |
| | | 22 × 30 | 580 |
| | 120 | 18 × 40 | 740 |
| | | 22 × 35 | 670 |
| | 150 | 25.4 × 30 | 680 |
| | | 18 × 45 | 753 |
| | | 22 × 40 | 780 |
| | 180 | 25.4 × 35 | 800 |
| | | 22 × 45 | 900 |
| | 200 | 25.4 × 40 | 970 |
| 220 | 22 × 50 | 1030 | |
| 270 | 25.4 × 50 | 1200 | |

| V _{dc} | Capacitance (μF) | ∅D×L(mm) | Rated Ripple Current (mA _{rms} /105°C, 120Hz) |
|-----------------|------------------|-------------|--|
| 450 | 1 | 6.3 × 11 | 12 |
| | 1.5 | 8 × 11.5 | 23 |
| | 2.2 | 8 × 15 | 38 |
| | 3.3 | 8 × 15 | 42 |
| | 4.7 | 8 × 20 | 62 |
| | 6.8 | 10 × 20 | 100 |
| | 8.2 | 10 × 25 | 121 |
| | 10 | 12.5 × 20 | 135 |
| | 22 | 8 × 50 | 230 |
| | 27 | 16 × 25 | 267 |
| | 33 | 16 × 31.5 | 319 |
| | 47 | 10 × 50 | 334 |
| | | 18 × 25 | 368 |
| | 68 | 12.5 × 42.5 | 476 |
| | | 18 × 31.5 | 500 |
| | | 22 × 25 | 440 |
| | 82 | 12.5 × 50 | 473 |
| | | 18 × 31.5 | 594 |
| | 100 | 12.5 × 60 | 630 |
| | | 18 × 35.5 | 720 |
| 22 × 30 | | 620 | |
| 120 | 18 × 40 | 740 | |
| | 22 × 35 | 650 | |
| | 25.4 × 30 | 660 | |
| 150 | 18 × 45 | 753 | |
| | 20 × 40 | 757 | |
| | 22 × 40 | 780 | |
| | 25.4 × 35 | 780 | |
| 180 | 22 × 45 | 870 | |
| | 22 × 50 | 910 | |
| | 25.4 × 40 | 890 | |
| 200 | 22 × 50 | 950 | |
| 220 | 25.4 × 50 | 1070 | |
| 500 | 6.8 | 10 × 20 | 100 |
| | 10 | 12.5 × 20 | 135 |
| | 15 | 12.5 × 25 | 182 |
| | 22 | 12.5 × 30 | 210 |
| | 27 | 10 × 50 | 253 |
| | 33 | 16 × 31.5 | 319 |
| | | 18 × 25 | 308 |
| | 39 | 12.5 × 50 | 358 |
| | 40 | 12.5 × 50 | 360 |
| | 47 | 18 × 31.5 | 393 |
| | 56 | 12.5 × 60 | 440 |
| | | 22 × 25 | 390 |
| | 60 | 12.5 × 60 | 455 |
| | 68 | 18 × 35.5 | 489 |
| | | 22 × 30 | 450 |
| | 82 | 18 × 40 | 594 |
| | | 25.4 × 30 | 530 |
| | 100 | 18 × 45 | 620 |
| | | 20 × 40 | 618 |
| | | 22 × 35 | 580 |
| | 120 | 22 × 40 | 610 |
| | | 22 × 45 | 702 |
| | | 25.4 × 35 | 680 |
| 150 | 25.4 × 40 | 710 | |
| | 22 × 50 | 827 | |
| 180 | 25.4 × 50 | 950 | |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Aluminium Electrolytic Capacitors - Radial Leaded](#) category:

Click to view products by [SAMYOUNG](#) manufacturer:

Other Similar products are found below :

[LXY50VB4.7M-5X11](#) [RFO-100V471MJ7P#](#) [ECE-A1EGE220](#) [1814181](#) [NCD681K10KVY5PF](#) [NEV1000M25EF-BULK](#) [NEV100M35DC](#)
[NEV100M63DE](#) [NEV220M25DD-BULK](#) [NEV.33M100AA](#) [NEV4700M50HB](#) [NEV.47M100AA](#) [NEVH1.0M250AB](#) [NEVH3.3M250BB](#)
[NEVH3.3M450CC](#) [KME50VB100M-8X11.5](#) [SG220M1CSA-0407](#) [ES5107M016AE1DA](#) [ESX472M16B](#) [476CKH100MSA](#) [477RZS050M](#)
[UVX1V101KPA1FA](#) [UVX1V222MHA1CA](#) [KME25VB100M-6.3X11](#) [VTL100S10](#) [VTL470S10](#) [511D336M250EK5D](#) [052687X](#) [ECE-](#)
[A1CF471](#) [EKXG451ELL820MM30S](#) [686CKR050M](#) [NRE-S560M16V6.3X7TBSTF](#) [ERZA630VHN182UP54N](#) [UPL1A331MPH](#)
[NEV1000M6.3DE](#) [NEV100M16CB](#) [NEV100M50DD-BULK](#) [NEV2200M16FF](#) [NEV220M50EE](#) [NEV2.2M50AA](#) [NEV330M63EF](#)
[NEV4700M35HI](#) [NEV4.7M100BA](#) [NEV47M16BA](#) [NEV47M50CB-BULK](#) [NEVH1.0M350AB](#) [NEVH2.2M160AB](#) [NEVH3.3M350BC](#)
[TER330M50GM](#) [477KXM035MGBWSA](#)