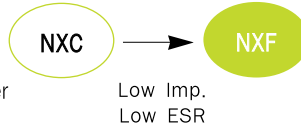


NXF Series

• 105°C 2,000Hrs assured.

- Non-solvent proof.
- Ultra low impedance/ESR
- For MAIN-Board, SMPS, Noise Filter, Charger, Adapter
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics								
Rated Voltage Range	6.3 ~ 16 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"> <thead> <tr> <th>Rated Voltage(V_{DC})</th> <th>6.3</th> <th>10</th> <th>16</th> </tr> </thead> <tbody> <tr> <td>Tanδ(Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> </tr> </tbody> </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	Tanδ(Max.)	0.22	0.19	0.16
Rated Voltage(V _{DC})	6.3	10	16						
Tanδ(Max.)	0.22	0.19	0.16						
Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tbody> <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> </tbody> </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	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 for 2,000 hours at 105°C. Capacitance change ≤ ±25% of the initial value 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°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. Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value								
Others	Satisfied characteristics KS C IEC 60384-4								

DIMENSIONS OF NXF Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK

øD	8	10
ød	0.6	0.6
F	3.5	5.0
øD'	øD + 0.5 max.	
L'	L + 1.5 max.	L + 2.0 max.

RATINGS OF NXF series

V _{DC}	6.3		
Capacitance (μF)	∅ D × L (mm)	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR (Ω max./20°C, 100kHz)
820	8 × 11.5	1,311	0.031
1,200	8 × 15	1,713	0.024
1,500	10 × 12.5	1,771	0.022
1,800	8 × 20	2,150	0.016
1,800	10 × 16	2,300	0.016
2,200	10 × 20	2,770	0.011
3,300	10 × 25	3,200	0.010

V _{DC}	10		
Capacitance (μF)	∅ D × L (mm)	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR (Ω max./20°C, 100kHz)
680	8 × 11.5	1,311	0.031
1,000	8 × 15	1,713	0.024
1,000	10 × 12.5	1,771	0.022
1,500	8 × 20	2,150	0.016
1,500	10 × 16	2,300	0.016
1,800	10 × 20	2,770	0.011
2,200	10 × 25	3,200	0.010

V _{DC}	16		
Capacitance (μF)	∅ D × L (mm)	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR (Ω max./20°C, 100kHz)
470	8 × 11.5	1,311	0.031
680	8 × 15	1,713	0.024
680	10 × 12.5	1,771	0.022
1,000	8 × 20	2,150	0.016
1,000	10 × 16	2,300	0.016
1,500	10 × 20	2,770	0.011
1,800	10 × 25	3,200	0.010

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap. (μF) \ Freq. (Hz)	120	1k	10k	50k	100k
470 ~ 560	0.50	0.85	0.94	0.96	1.00
680 ~ 1,800	0.60	0.87	0.95	0.97	1.00
2,200 ~ 3,300	0.75	0.90	0.95	0.97	1.00