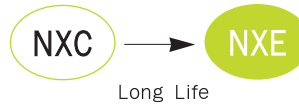


NXE Series

- 105°C 3,000~4,000Hrs assured.

- Non-solvent proof.
- Ultra Low ESR, Long Life.
- For MAIN-Board, SMPS.
- RoHS compliant.
- Halogen-free capacitors are also available.

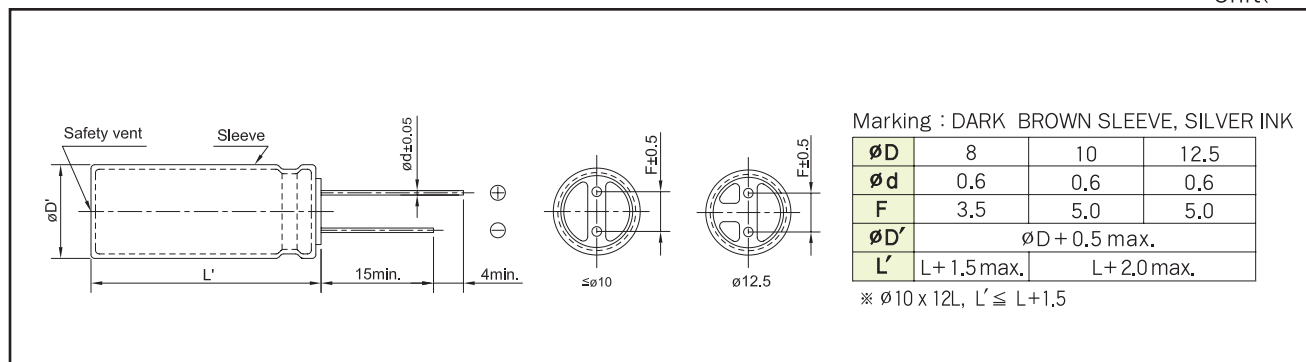


SPECIFICATIONS

Item	Characteristics																	
Rated Voltage Range	6.3 ~ 35 V _{DC}																	
Operating Temperature Range	-40 ~ + 105°C																	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)																	
Leakage Current	I=0.03CV(μA) or 4μA, 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><tr><td>Rated Voltage(V_{DC})</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</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></tr></table> (at 20°C, 120Hz)						Rated Voltage(V _{DC})	6.3	10	16	25	35	Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12
Rated Voltage(V _{DC})	6.3	10	16	25	35													
Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12													
Temperature Characteristics (Max. Impedance ratio)	<table><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> (at 120Hz)						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 (the peak voltage shall not exceed the rated voltage) at 105°C for the specified period of time. Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value <table><tr><td>ø D</td><td>Life Time</td></tr><tr><td>ø 8</td><td>3,000 hours</td></tr><tr><td>ø 10~</td><td>4,000 hours</td></tr></table>						ø D	Life Time	ø 8	3,000 hours	ø 10~	4,000 hours						
ø D	Life Time																	
ø 8	3,000 hours																	
ø 10~	4,000 hours																	
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 ≤ 200% of the initial specified value																	
Others	Satisfied characteristics KS C IEC 60384-4																	

DIMENSIONS OF NXE Series

Unit(mm)





MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF NXE series

Vdc		6.3		
μF	Items	$\varnothing D \times L(mm)$	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR
				($\varnothing$ max./20°C, 100kHz) ($\varnothing$ max./-10°C, 100kHz)
1,200		8 × 15	1,490	0.028 0.085
1,800		8 × 20	1,870	0.019 0.057
1,500		10 × 12	1,540	0.030 0.091
1,500		10 × 12.5	1,540	0.030 0.091
1,800		10 × 16	2,000	0.019 0.057
2,200		10 × 20	2,550	0.013 0.039
3,300		10 × 25	2,800	0.012 0.036

Vdc		10		
μF	Items	$\varnothing D \times L(mm)$	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR
				($\varnothing$ max./20°C, 100kHz) ($\varnothing$ max./-10°C, 100kHz)
1,000		8 × 15	1,490	0.028 0.085
1,500		8 × 20	1,870	0.019 0.057
1,000		10 × 12	1,540	0.030 0.091
1,000		10 × 12.5	1,540	0.030 0.091
1,200		10 × 16	2,000	0.019 0.057
1,500		10 × 16	2,000	0.019 0.057
1,800		10 × 20	2,550	0.013 0.039
2,200		10 × 25	2,800	0.012 0.036

Vdc		16		
μF	Items	$\varnothing D \times L(mm)$	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR
				($\varnothing$ max./20°C, 100kHz) ($\varnothing$ max./-10°C, 100kHz)
680		8 × 15	1,490	0.028 0.085
1,000		8 × 20	1,870	0.019 0.057
680		10 × 12	1,540	0.030 0.091
680		10 × 12.5	1,540	0.030 0.091
1,000		10 × 16	2,000	0.019 0.057
1,500		10 × 20	2,550	0.013 0.039
1,800		10 × 25	2,800	0.012 0.036

Vdc		25		
μF	Items	$\varnothing D \times L(mm)$	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR
				($\varnothing$ max./20°C, 100kHz) ($\varnothing$ max./-10°C, 100kHz)
390		8 × 15	1,490	0.028 0.085
560		8 × 20	1,870	0.019 0.057
470		10 × 12	1,540	0.030 0.091
470		10 × 12.5	1,540	0.030 0.091
680		10 × 16	2,000	0.019 0.057
820		10 × 20	2,550	0.013 0.039
1,000		10 × 25	2,800	0.012 0.036
1,200		12.5 × 20	3,000	0.014 0.042

Vdc		35		
μF	Items	$\varnothing D \times L(mm)$	Rated Ripple Current (mA rms/105°C, 100kHz)	ESR
				($\varnothing$ max./20°C, 100kHz) ($\varnothing$ max./-10°C, 100kHz)
270		8 × 15	1,490	0.028 0.085
390		8 × 20	1,870	0.019 0.057
330		10 × 12	1,540	0.030 0.091
330		10 × 12.5	1,540	0.030 0.091
470		10 × 16	2,000	0.019 0.057
560		10 × 20	2,550	0.013 0.039
680		10 × 25	2,800	0.012 0.036

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF)	Freq.(Hz)	120	1k	10k	50k	100k
270 ~ 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