

NXE Series

• 105°C 3,000~4,000Hrs assured

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

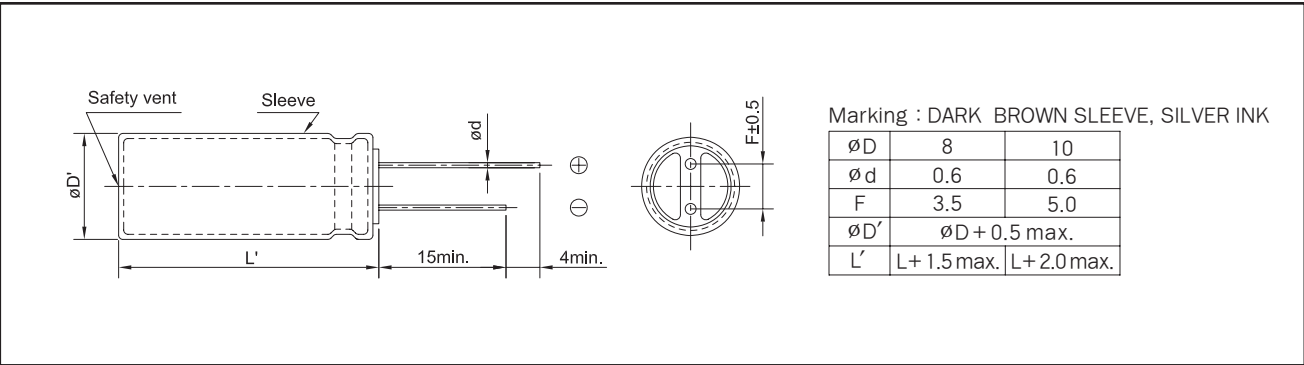


SPECIFICATIONS

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
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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								
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Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied 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						
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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)





RATING OF NXE series

Vdc	6.3		
Capacitance (μF)	$\varnothing D \times L(\text{mm})$	Rated Ripple Current (mArms/105°C, 100kHz)	ESR (m Ω max./20°C, 100kHz)
820	8 × 11.5	1,140	36
1,200	8 × 15	1,490	28
1,500	10 × 12.5	1,540	26
1,800	8 × 20	1,870	19
1,800	10 × 16	2,000	19
2,200	10 × 20	2,550	13
3,300	10 × 25	2,800	12

Vdc	10		
Capacitance (μF)	$\varnothing D \times L(\text{mm})$	Rated Ripple Current (mArms/105°C, 100kHz)	ESR (m Ω max./20°C, 100kHz)
680	8 × 11.5	1,140	36
1,000	8 × 15	1,490	28
1,000	10 × 12.5	1,540	26
1,500	8 × 20	1,870	19
1,500	10 × 16	2,000	19
1,800	10 × 20	2,550	13
2,200	10 × 25	2,800	12

Vdc	16		
Capacitance (μF)	$\varnothing D \times L(\text{mm})$	Rated Ripple Current (mArms/105°C, 100kHz)	ESR (m Ω max./20°C, 100kHz)
470	8 × 11.5	1,140	36
680	8 × 15	1,490	28
680	10 × 12.5	1,540	26
1,000	8 × 20	1,870	19
1,000	10 × 16	2,000	19
1,500	10 × 20	2,550	13
1,800	10 × 25	2,800	12

Vdc	25		
Capacitance (μF)	$\varnothing D \times L(\text{mm})$	Rated Ripple Current (mArms/105°C, 100kHz)	ESR (m Ω max./20°C, 100kHz)
220	8 × 11.5	1,140	36
390	8 × 15	1,490	28
560	8 × 20	1,870	19
470	10 × 12.5	1,540	26
680	10 × 16	2,000	19
820	10 × 20	2,550	13
1,000	10 × 25	2,800	12

Vdc	35		
Capacitance (μF)	$\varnothing D \times L(\text{mm})$	Rated Ripple Current (mArms/105°C, 100kHz)	ESR (m Ω max./20°C, 100kHz)
150	8 × 11.5	1,140	36
270	8 × 15	1,490	28
390	8 × 20	1,870	19
330	10 × 12.5	1,540	26
470	10 × 16	2,000	19
560	10 × 20	2,550	13
680	10 × 25	2,800	12

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Frequency(Hz)	120	1k	10k	100k
150 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1,800	0.60	0.87	0.95	1.00
2,200 ~ 3,300	0.75	0.90	0.95	1.00