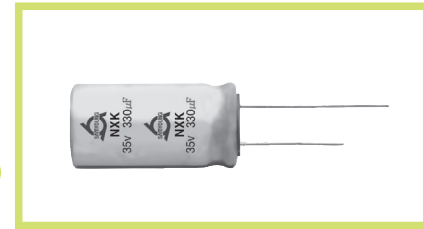
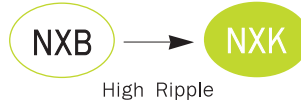


NXK Series

- 105°C 4,000~5,000Hrs assured.

- Non-solvent proof.
- Low Impedance.
- High Ripple.
- For LED TV BLU Inverter, SMPS, IP-Board, Adaptor.
- RoHS compliant.
- Halogen-free capacitors are also available.

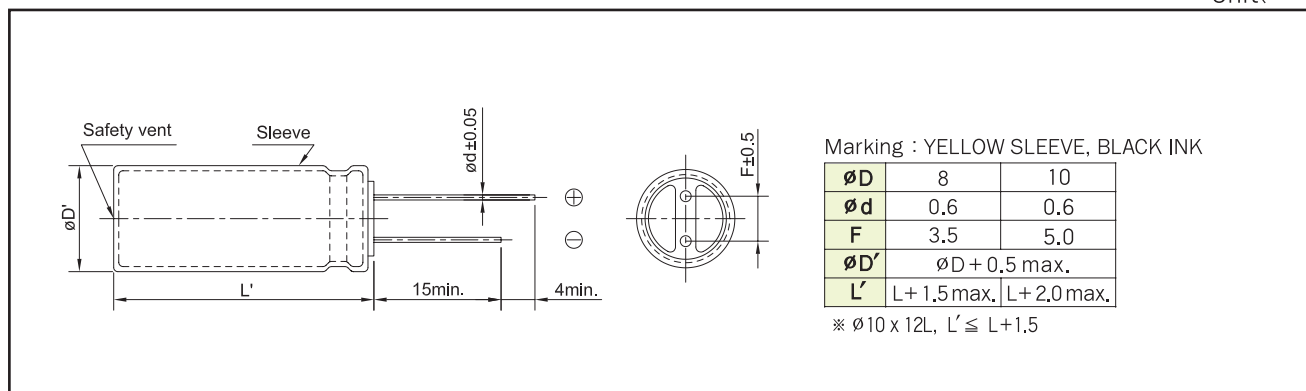


SPECIFICATIONS

Item	Characteristics																								
Rated Voltage Range	10 ~ 50 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><tr><td>Rated Voltage(V_{DC})</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Tanδ(Max.)</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table> When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)					Rated Voltage(V _{DC})	10	16	25	35	50	Tanδ(Max.)	0.19	0.16	0.14	0.12	0.10								
Rated Voltage(V _{DC})	10	16	25	35	50																				
Tanδ(Max.)	0.19	0.16	0.14	0.12	0.10																				
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. <table><tr><td>Rated voltage(V_{DC})</td><td>10</td><td>16~50</td><td>Case Size(ø D)</td><td>Life Time</td></tr><tr><td>Capacitance change</td><td>≤ ±30% of the initial value</td><td>≤ ±25% of the initial value</td><td>ø 8 ø 10x12~12.5L</td><td>4,000Hrs</td></tr><tr><td>Tanδ</td><td colspan="2">≤ 200% of the initial specified value</td><td></td><td></td></tr><tr><td>Leakage current</td><td colspan="2">≤ The initial specified value</td><td>ø 10</td><td>5,000Hrs</td></tr></table>					Rated voltage(V _{DC})	10	16~50	Case Size(ø D)	Life Time	Capacitance change	≤ ±30% of the initial value	≤ ±25% of the initial value	ø 8 ø 10x12~12.5L	4,000Hrs	Tanδ	≤ 200% of the initial specified value				Leakage current	≤ The initial specified value		ø 10	5,000Hrs
Rated voltage(V _{DC})	10	16~50	Case Size(ø D)	Life Time																					
Capacitance change	≤ ±30% of the initial value	≤ ±25% of the initial value	ø 8 ø 10x12~12.5L	4,000Hrs																					
Tanδ	≤ 200% of the initial specified value																								
Leakage current	≤ The initial specified value		ø 10	5,000Hrs																					
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. <table><tr><td>Rated voltage(V_{DC})</td><td>10</td><td>16~50</td></tr><tr><td>Capacitance change</td><td>≤ ±30% of the initial value</td><td>≤ ±25% of the initial value</td></tr><tr><td>Tanδ</td><td colspan="2">±200% of the initial specified value</td></tr><tr><td>Leakage current</td><td colspan="2">≤ The initial specified value</td></tr></table>					Rated voltage(V _{DC})	10	16~50	Capacitance change	≤ ±30% of the initial value	≤ ±25% of the initial value	Tanδ	±200% of the initial specified value		Leakage current	≤ The initial specified value									
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Leakage current	≤ The initial specified value																								
Others	Satisfied characteristics KS C IEC 60384-4																								

DIMENSIONS OF NXK Series

Unit(mm)





MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF NXK series

V _{dc}	10			
Capacitance (μF)	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	IMP.	
			($\varnothing$ max./20°C, 100kHz)	($\varnothing$ max./-10°C, 100kHz)
1,000	8 × 15	2,050	0.059	0.24
1,000	10 × 12	2,190	0.053	0.21
1,000	10 × 12.5	2,190	0.053	0.21
1,500	8 × 20	2,380	0.041	0.16
1,500	10 × 16	2,550	0.038	0.15
1,800	10 × 20	2,880	0.028	0.112
2,200	10 × 25	3,160	0.024	0.096
2,700	10 × 33	3,570	0.020	0.080

V _{dc}	16			
Capacitance (μF)	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	IMP.	
			($\varnothing$ max./20°C, 100kHz)	($\varnothing$ max./-10°C, 100kHz)
680	8 × 15	2,050	0.059	0.24
680	10 × 12	2,190	0.053	0.21
680	10 × 12.5	2,190	0.053	0.21
1,000	8 × 20	2,380	0.041	0.16
1,000	10 × 16	2,550	0.038	0.15
1,500	10 × 20	2,880	0.028	0.112
1,800	10 × 25	3,160	0.024	0.096
2,200	10 × 33	3,570	0.020	0.080

V _{dc}	25			
Capacitance (μF)	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	IMP.	
			($\varnothing$ max./20°C, 100kHz)	($\varnothing$ max./-10°C, 100kHz)
390	8 × 15	2,050	0.059	0.24
470	10 × 12	2,190	0.053	0.21
470	10 × 12.5	2,190	0.053	0.21
560	8 × 20	2,380	0.041	0.16
680	10 × 16	2,550	0.038	0.15
820	10 × 20	2,880	0.028	0.112
1,000	10 × 25	3,160	0.024	0.096
1,200	10 × 33	3,570	0.020	0.080

V _{dc}	35			
Capacitance (μF)	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	IMP.	
			($\varnothing$ max./20°C, 100kHz)	($\varnothing$ max./-10°C, 100kHz)
270	8 × 15	2,050	0.059	0.24
330	10 × 12	2,190	0.053	0.21
330	10 × 12.5	2,190	0.053	0.21
390	8 × 20	2,380	0.041	0.16
470	10 × 16	2,550	0.038	0.15
560	10 × 20	2,880	0.028	0.112
680	10 × 25	3,160	0.024	0.096
1,000	10 × 33	3,570	0.020	0.080

V _{dc}	50			
Capacitance (μF)	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	IMP.	
			($\varnothing$ max./20°C, 100kHz)	($\varnothing$ max./-10°C, 100kHz)
120	8 × 15	1,558	0.080	0.32
150	10 × 12	1,612	0.083	0.33
150	10 × 12.5	1,612	0.083	0.33
180	8 × 20	1,888	0.065	0.26
220	10 × 16	1,985	0.057	0.23
270	10 × 20	2,322	0.042	0.17
330	10 × 25	2,626	0.037	0.15
470	10 × 33	2,954	0.033	0.13

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1k	10k	50k	100k
120 ~ 270	0.50	0.73	0.92	0.95	1.00
330 ~ 680	0.55	0.77	0.94	0.96	1.00
820 ~ 1,800	0.60	0.80	0.96	0.97	1.00
2,200 ~ 2,700	0.70	0.85	0.98	0.99	1.00