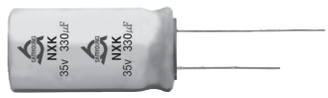
NXK Series

• 105℃ 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.

NXB → NXK
High Ripple



SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	10 ~ 50 V_{DC}
Operating Temperature Range	-40 ~ + 105℃
Capacitance Tolerance	±20% (M) (at 20℃, 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℃, 2 minutes)
Dissipation Factor(Tanδ)	Rated Voltage(V_{DC}): 10 / 16 / 25 / 35 / 50 Tanδ(Max.): 0.19 / 0.16 / 0.14 / 0.12 / 0.10 When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	Z(-25℃)/ Z(+20℃): 2 Z(-40℃)/ Z(+20℃): 3 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) at 105℃ for the specified period of time.
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ 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.
Others	Satisfied characteristics KS C IEC 60384-4

Load Life

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	

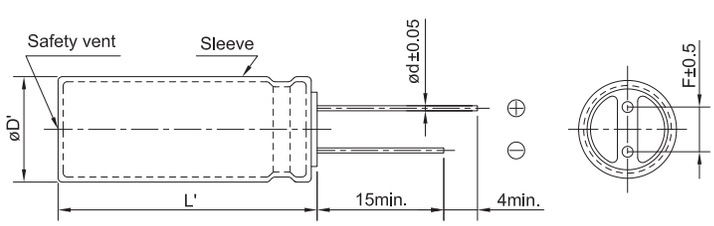
Case Size(øD)	Life Time
ø8 ø10x12~12.5L	4,000Hrs
ø10	5,000Hrs

Shelf Life

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	

DIMENSIONS OF NXK Series

Unit(mm)



Marking : YELLOW SLEEVE, BLACK 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.

※ ø10 x 12L, L'≦ L+1.5

RATINGS OF NXK series

Vdc	10			
Capacitance (μF)	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	IMP.	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
680	8×11.5	1,417	0.073	0.29
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

Vdc	16			
Capacitance (μF)	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	IMP.	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
470	8×11.5	1,417	0.073	0.29
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

Vdc	25			
Capacitance (μF)	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	IMP.	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
330	8×11.5	1,417	0.073	0.29
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

Vdc	35			
Capacitance (μF)	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	IMP.	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
220	8×11.5	1,417	0.073	0.29
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

Vdc	50			
Capacitance (μF)	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	IMP.	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
100	8×11.5	1,086	0.096	0.38
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
100 ~ 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