NXB Series

• 105℃ 2,000~5,000Hrs assured.

- Non-solvent proof.
- Very Low Impedance.
- For SMPS, IP-Board, Adaptor, Noise Filter, Charger.
- **RoHS compliant.**
- **Halogen-free capacitors are also available.**

NXA → NXB
Low Imp.

SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	6.3 ~ 120 VDC
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(VDC) (at 20℃, 2 minutes)
Dissipation Factor(Tanδ)	See table below
Temperature Characteristics (Max. Impedance ratio)	See table below
Load Life	See table below
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. 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

Dissipation Factor(Tanδ)

Rated voltage(VDC)	6.3	10	16	25	35	50	63	100	120
Tanδ(Max)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08

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

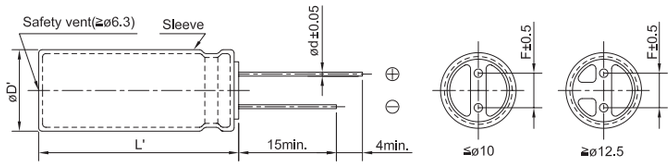
The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) at 105℃ for the specified period of time.

Capacitance change ≦ ±25% of the initial value
Tanδ ≦ 200% of the initial specified value
Leakage current ≦ The initial specified value

ØD	Life Time
Ø5, 6.3	2,000 hours
Ø8	3,000 hours
Ø10	4,000 hours
Ø12.5 ~	5,000 hours

DIMENSIONS OF NXB Series

Unit(mm)



Marking : DARK BROWN SLEEVE, SILVER INK

ØD	5	6.3	8	10	12.5	16	18
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ØD'	ØD+0.5 max.						
L'	L+1.5 max.			L+2.0 max.			

※ Ø10 x 12L, L'≦ L+1.5

RATINGS OF NXB Series

WV / ØD×L(mm)	6.3				10				16			
	μF	IMP.		Ripple	μF	IMP.		Ripple	μF	IMP.		Ripple
		20℃	-10℃			20℃	-10℃			20℃	-10℃	
5×11	220	0.30	1.0	250	150	0.30	1.00	250	100	0.30	1.0	250
6.3×11	470	0.13	0.41	405	330	0.13	0.41	405	100	0.15	0.41	385
									220	0.13	0.36	405
6.3×15	560	0.10	0.32	646	470	0.10	0.32	646	330	0.10	0.32	646
8×11.5	820	0.072	0.22	760	330	0.094	0.28	600	470	0.072	0.22	760
					680	0.072	0.22	760				
8×15	1,200	0.060	0.18	818	1,000	0.060	0.18	818	680	0.060	0.18	818
8×20	1,500	0.050	0.16	1,260	1,200	0.050	0.16	1,260	1,000	0.050	0.16	1,260
10×12	1,200	0.053	0.16	1,360	820	0.053	0.16	1,360	680	0.053	0.16	1,360
					1000	0.053	0.16	1,360				
10×12.5	1,200	0.053	0.16	1,360	820	0.053	0.16	1,360	680	0.053	0.16	1,360
					1000	0.053	0.16	1,360				
10×16	1,800	0.038	0.12	1,430	1,000	0.038	0.12	1,430	1,000	0.038	0.12	1,430
					1,500	0.038	0.12	1,430				
10×20	2,200	0.023	0.069	1,820	1,500	0.023	0.069	1,820	1,500	0.023	0.069	1,820
10×25	3,300	0.022	0.066	2,150	2,200	0.022	0.066	2,150	1,800	0.022	0.066	2,150
12.5×16	1,800	0.031	0.078	1,452	1,500	0.031	0.078	1,452	1,000	0.031	0.078	1,452
12.5×20	3,900	0.021	0.053	2,360	3,300	0.021	0.053	2,360	2,200	0.021	0.053	2,360
12.5×25	4,700	0.020	0.050	2,770	3,900	0.020	0.050	2,770	2,700	0.020	0.050	2,770
12.5×30	5,600	0.018	0.046	3,290	4,700	0.018	0.046	3,290	3,300	0.018	0.046	3,290
12.5×35	6,800	0.017	0.044	3,400	5,600	0.017	0.044	3,400	3,900	0.017	0.044	3,400
16×15	2,700	0.040	0.101	1,375	1,800	0.040	0.101	1,375	1,200	0.040	0.101	1,375
16×20	5,600	0.021	0.053	3,140	4,700	0.021	0.053	3,140	3,300	0.021	0.053	3,140
16×25	6,800	0.019	0.051	3,460	5,600	0.019	0.051	3,460	4,700	0.019	0.051	3,460
16×31.5	8,200	0.013	0.035	3,680	6,800	0.013	0.035	3,680	5,600	0.013	0.035	3,680
18×20	5,600	0.020	0.052	3,265	4,700	0.020	0.052	3,265	3,300	0.020	0.052	3,265
18×25	8,200	0.018	0.049	3,611	5,600	0.018	0.049	3,611	3,900	0.018	0.049	3,611

WV / ØD×L(mm)	25				35				50			
	μF	IMP.		Ripple	μF	IMP.		Ripple	μF	IMP.		Ripple
		20℃	-10℃			20℃	-10℃			20℃	-10℃	
5×11	68	0.30	1.0	250	47	0.30	1.0	250	1	2.50	8.68	53
									2.2	2.50	8.68	56
									4.7	1.50	5.21	82
									10	1.0	3.47	250
									22	0.30	1.04	250
									27	0.30	1.04	250
6.3×11	150	0.13	0.41	405	100	0.13	0.41	405	47	0.14	0.50	350
									56	0.14	0.50	385
6.3×15	220	0.10	0.32	646	150	0.10	0.32	646	100	0.10	0.32	646
8×11.5	220	0.072	0.22	760	150	0.072	0.22	760	100	0.072	0.21	724
8×15	390	0.060	0.18	818	270	0.060	0.18	818	120	0.060	0.24	818
8×20	560	0.050	0.16	1,260	390	0.050	0.16	1,260	180	0.050	0.18	1,260
10×12	330	0.053	0.16	1,360	220	0.053	0.16	1,360	150	0.061	0.18	979
	470	0.053	0.16	1,360	330	0.053	0.16	1,360				
10×12.5	330	0.053	0.16	1,360	220	0.053	0.16	1,360	150	0.061	0.18	979
	470	0.053	0.16	1,360	330	0.053	0.16	1,360				
10×16	470	0.038	0.12	1,430	470	0.038	0.12	1,430	220	0.042	0.12	1,370
	680	0.038	0.12	1,430								
10×20	680	0.023	0.069	1,820	560	0.023	0.069	1,820	330	0.030	0.090	1,580
	820	0.023	0.069	2,000	680	0.023	0.069	1,820				
	1,000	0.025	0.075	1,900								
10×25	1,000	0.022	0.066	2,150	680	0.022	0.066	2,150	470	0.028	0.085	1,870
12.5×16	680	0.031	0.078	1,452	470	0.031	0.078	1,452	270	0.042	0.078	1,071
12.5×20	1,500	0.021	0.053	2,360	1,000	0.021	0.053	2,360	470	0.027	0.068	2,050
12.5×25	1,800	0.020	0.050	2,770	1,000	0.020	0.050	2,770	560	0.023	0.059	2,410
	2,200	0.020	0.050	3,000	1,200	0.020	0.050	2,770				
12.5×30	2,200	0.018	0.046	3,290	1,500	0.018	0.046	3,290	680	0.021	0.052	2,860
12.5×35	2,700	0.017	0.044	3,400	1,800	0.017	0.044	3,400	820	0.019	0.051	2,960
16×15	820	0.040	0.101	1,375	560	0.040	0.101	1,375	390	0.046	0.114	1,196
16×20	2,200	0.021	0.053	3,140	1,500	0.021	0.053	3,140	820	0.023	0.059	2,730
16×25	3,300	0.019	0.051	3,460	1,800	0.019	0.051	3,460	1,000	0.021	0.056	3,010
					2,200	0.019	0.051	3,460				
16×31.5	3,300	0.013	0.035	3,680	2,200	0.013	0.035	3,680	1,500	0.014	0.037	3,201
18×20	2,200	0.020	0.052	3,265	1,500	0.020	0.052	3,265	1,000	0.022	0.059	2,850
18×25	2,700	0.018	0.049	3,611	1,800	0.018	0.049	3,611	1,200	0.020	0.053	3,140

RATINGS OF NXB Series

WV / ØDxL(mm)	63			
	μF	IMP.		Ripple
		20℃	-10℃	
5×11	10	0.45	1.8	165
6.3×11	33	0.30	1.2	265
6.3×15	47	0.25	1.0	420
8×11.5	47	0.20	0.80	500
	68	0.20	0.80	500
10×12	68	0.16	0.64	600
10×12.5	68	0.16	0.64	600
10×16	100	0.10	0.40	945
10×20	150	0.080	0.32	1,100
10×25	220	0.070	0.28	1,300
12.5×20	330	0.040	0.16	1,495
16×20	470	0.035	0.14	1,990
16×25	680	0.030	0.12	2,780
16×31.5	1,000	0.020	0.080	2,835

WV / ØDxL(mm)	100				120			
	μF	IMP.		Ripple	μF	IMP.		Ripple
		20℃	-10℃			20℃	-10℃	
5×11	3.3	2.0	8.0	125				
5×11	4.7	2.0	8.0	125				
6.3×11	10	0.50	2.0	205				
6.3×15	22	0.40	1.6	300				
8×11.5	22	0.30	1.2	355	22	0.30	1.2	472
10×12	33	0.25	1.0	450	33	0.25	1.0	599
10×12.5	33	0.25	1.0	450	33	0.25	1.0	599
10×16	47	0.20	0.80	580	47	0.20	0.80	771
12.5×20	100	0.10	0.40	1,045	100	0.10	0.40	1,400
12.5×25	150	0.070	0.28	1,195	120	0.070	0.28	1,589
16×25	220	0.060	0.24	1,600	220	0.060	0.24	2,128
16×31.5	330	0.040	0.16	1,750	270	0.040	0.16	2,328
	470	0.040	0.16	1,750				
18×40	820	0.030	0.12	2,060	560	0.036	0.144	2,740

Rated Ripple Current (mArms/105℃, 100kHz)
Impedance (Ω max./100kHz)
Nominal Capacitance(μF)

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1k	10k	50k	100k
1 ~ 180	0.40	0.75	0.90	0.95	1.00
220 ~ 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 ~ 3,900	0.75	0.90	0.95	0.97	1.00
4,700 ~ 8,200	0.85	0.95	0.98	0.99	1.00

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