

NXB Series

- 105°C 6,000~10,000Hrs assured.

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

NXB

NXH

Long Life

**SPECIFICATIONS**

Item	Characteristics										
Rated Voltage Range	6.3 ~ 100 V _{DC}										
Operating Temperature Range	-40 ~ +105°C										
Capacitance Tolerance	$\pm 20\% (M)$ (at 20°C, 120Hz)										
Leakage Current	$I = 0.01CV(\mu A)$ or $3\mu A$, 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(Tan δ)	Rated voltage(V _{DC})	6.3	10	16	25	35	50	63	80	100	
	Tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08	
	When the capacitance exceeds 1,000 μF , 0.02 shall be added every 1,000 μF increase. (at 20°C, 120Hz)										
Temperature Characteristics (Max. Impedance ratio)	Z(-25°C)/Z(+20°C)	2	(at 120Hz)								
	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.										
	Rated voltage(V _{DC})	6.3~10	16~100	ØD							
	Capacitance change	$\leq \pm 30\%$ of the initial value	$\leq \pm 25\%$ of the initial value	Ø5~ Ø6.3							
	Tan δ	$\leq 200\%$ of the initial specified value						6,000 hours			
	Leakage current	\leq The initial specified value						Ø8			
								8,000 hours			
								Ø10~			
								10,000 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.										
	Rated voltage(V _{DC})	6.3~10	16~100								
	Capacitance change	$\leq \pm 30\%$ of the initial value	$\leq \pm 25\%$ of the initial value								
	Tan δ	$\leq 200\%$ of the initial specified value									
	Leakage current	\leq The initial specified value									
Others	Satisfied characteristics KS C IEC 60384-4										

DIMENSIONS OF NXH Series

Unit(mm)

	Marking : YELLOW SLEEVE, BLACK 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' $\varnothing D + 0.5$ max. L' $L + 1.5$ max. $L + 2.0$ max.	
	※ $\varnothing 10 \times 12L$, $L' \leq L+1$	

NXH Series



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF NXH Series

V _{dc} ØD×L(mm)	6.3				10				16			
	μF	IMP.		Ripple	μF	IMP.		Ripple	μF	IMP.		Ripple
		20°C	-10°C			20°C	-10°C			20°C	-10°C	
5×15	470	0.13	0.47	480	330	0.13	0.47	480	220	0.13	0.47	480
6.3×15	560	0.084	0.31	620	470	0.084	0.31	620	330	0.084	0.31	620
8×15	1,200	0.045	0.15	1,250	1,000	0.045	0.15	1,250	680	0.045	0.15	1,250
8×20	1,500	0.029	0.11	1,500	1,500	0.029	0.11	1,500	1,000	0.029	0.11	1,500
10×12	1,200	0.039	0.14	1,330	1,000	0.039	0.14	1,330	680	0.039	0.14	1,330
10×12.5	1,200	0.039	0.14	1,330	1,000	0.039	0.14	1,330	680	0.039	0.14	1,330
10×16	1,800	0.028	0.10	1,760	1,500	0.028	0.10	1,760	1,000	0.028	0.10	1,760
10×20	2,200	0.020	0.060	1,960	1,800	0.020	0.060	1,960	1,500	0.020	0.060	1,960
10×25	2,700	0.018	0.054	2,250	2,200	0.018	0.054	2,250	1,800	0.018	0.054	2,250
10×33	3,300	0.015	0.045	2,550	2,700	0.015	0.045	2,550	2,200	0.015	0.045	2,550
12.5×20	3,900	0.017	0.043	2,480	3,300	0.017	0.043	2,480	2,200	0.017	0.043	2,480
12.5×25	4,700	0.015	0.038	2,900	3,900	0.015	0.038	2,900	2,700	0.015	0.038	2,900
12.5×30	5,600	0.013	0.033	3,450	4,700	0.013	0.033	3,450	3,300	0.013	0.033	3,450
12.5×35	6,800	0.012	0.031	3,570	5,600	0.012	0.031	3,570	3,900	0.012	0.031	3,570
16×20	6,800	0.015	0.038	3,250	4,700	0.015	0.038	3,250	3,300	0.015	0.038	3,250
16×25	8,200	0.013	0.035	3,630	6,800	0.013	0.035	3,630	4,700	0.013	0.035	3,630
18×25	10,000	0.012	0.031	3,650	8,200	0.012	0.031	3,650	5,600	0.012	0.031	3,650

V _{dc} ØD×L(mm)	25				35				50			
	μF	IMP.		Ripple	μF	IMP.		Ripple	μF	IMP.		Ripple
		20°C	-10°C			20°C	-10°C			20°C	-10°C	
5×15	150	0.13	0.47	480	100	0.13	0.47	480	56	0.16	0.56	350
6.3×15	220	0.084	0.31	620	150	0.084	0.31	620	100	0.12	0.43	586
8×15	390	0.045	0.15	1,250	270	0.045	0.15	1,250	120	0.061	0.18	950
8×15	470	0.045	0.15	1,330								
8×20	560	0.029	0.11	1,500	390	0.029	0.11	1,500	180	0.046	0.14	1,190
8×20					470	0.029		1,600				
10×12	470	0.039	0.14	1,330	330	0.039	0.14	1,330	68	0.070	0.21	750
10×12									150	0.061	0.18	979
10×12.5	470	0.039	0.14	1,330	330	0.039	0.14	1,330	68	0.070	0.21	750
10×12.5									150	0.061	0.18	979
10×16	680	0.028	0.10	1,760	470	0.028	0.10	1,760	220	0.042	0.12	1,370
10×16												
10×20	820	0.020	0.060	1,960	560	0.020	0.060	1,850	270	0.030	0.090	1,580
10×20	1,000	0.020	0.060	1,960	680	0.025	0.075	1,960				
10×25	1,000	0.018	0.054	2,250	680	0.018	0.054	2,250	330	0.028	0.085	1,870
10×33	1,200	0.015	0.045	2,550	1,000	0.015	0.045	2,550	470	0.025	0.076	2,110
12.5×20	1,000	0.018	0.045	2,500	1,000	0.017	0.043	2,480	470	0.027	0.068	2,050
12.5×20	1,500	0.017	0.043	2,550								
12.5×25	1,800	0.015	0.038	2,900	1,200	0.015	0.038	2,900	560	0.023	0.059	2,410
12.5×30	2,200	0.013	0.033	3,450	1,500	0.013	0.033	3,450	680	0.021	0.052	2,860
12.5×35	2,700	0.012	0.031	3,570	1,800	0.012	0.031	3,570	820	0.019	0.051	2,960
16×20	2,200	0.015	0.038	3,250	1,500	0.015	0.038	3,250	820	0.023	0.059	2,730
16×20	2,700	0.015	0.038	3,250					1,000	0.023	0.059	2,730
16×25	3,300	0.013	0.035	3,630	2,200	0.013	0.035	3,630	1,000	0.021	0.056	3,010
18×25	3,900	0.012	0.031	3,650	2,700	0.012	0.031	3,650	1,500	0.019	0.051	3,290

RATINGS OF NXH Series

V _{dc} ØD×L(mm)	63			
	μF	IMP.		Ripple
		20°C	-10°C	
8×15	100	0.18	0.72	688
8×20	150	0.16	0.64	861
10×12	120	0.16	0.64	725
10×12.5	120	0.16	0.64	725
10×16	180	0.10	0.40	998
10×20	270	0.080	0.32	1,200
10×25	330	0.070	0.28	1,410
12.5×20	390	0.050	0.20	1,570
12.5×25	470	0.037	0.15	1,990
12.5×30	560	0.032	0.13	2,410
12.5×35	680	0.030	0.12	2,620
16×20	560	0.035	0.14	2,100
16×25	820	0.030	0.12	2,430

V _{dc} ØD×L(mm)	80			100			
	μF	IMP.		Ripple	μF	IMP.	
		20°C	-10°C			20°C	-10°C
8×15	68	0.20	0.90	585	47	0.20	0.90
8×20	100	0.16	0.72	735	68	0.16	0.72
10×12	82	0.17	0.68	624	47	0.17	0.68
10×12.5	82	0.17	0.68	624	47	0.17	0.68
10×16	120	0.11	0.44	780	68	0.11	0.44
10×20	180	0.084	0.35	1,040	100	0.084	0.35
10×25	220	0.069	0.28	1,170	120	0.069	0.28
12.5×16	180	0.11	0.33	975	100	0.11	0.33
12.5×20	270	0.062	0.19	1,430	150	0.062	0.19
12.5×25	330	0.047	0.15	1,620	220	0.047	0.15
12.5×30	390	0.042	0.14	1,950	270	0.042	0.14
12.5×35	470	0.036	0.11	2,140	330	0.036	0.11
12.5×40	560	0.032	0.096	2,340	390	0.032	0.096
16×20	390	0.048	0.16	1,750	270	0.048	0.16
16×25	560	0.038	0.11	2,210	390	0.038	0.11
16×31.5	680	0.032	0.096	2,400	470	0.032	0.096
16×35.5	820	0.029	0.087	2,600	560	0.029	0.087
16×40	1,000	0.027	0.081	2,860	680	0.027	0.081
18×20	560	0.045	0.14	1,950	390	0.045	0.14
18×25	820	0.036	0.11	2,270	470	0.036	0.11
18×31.5	1,000	0.030	0.090	2,470	560	0.030	0.090
18×35.5	1,200	0.027	0.081	2,860	680	0.027	0.081
18×40	1,500	0.026	0.078	3,510	820	0.026	0.078

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 Rated Ripple Current (mA rms/105°C, 100kHz)
 Impedance (Ω max./100kHz)
 Nominal Capacitance(μF)

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF)	Freq.(Hz)	120	1k	10k	50k	100k
		47 ~ 270	0.50	0.73	0.92	0.95
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 ~ 10,000		0.70	0.85	0.98	0.99	1.00