

**NXB Series**

- 105°C 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

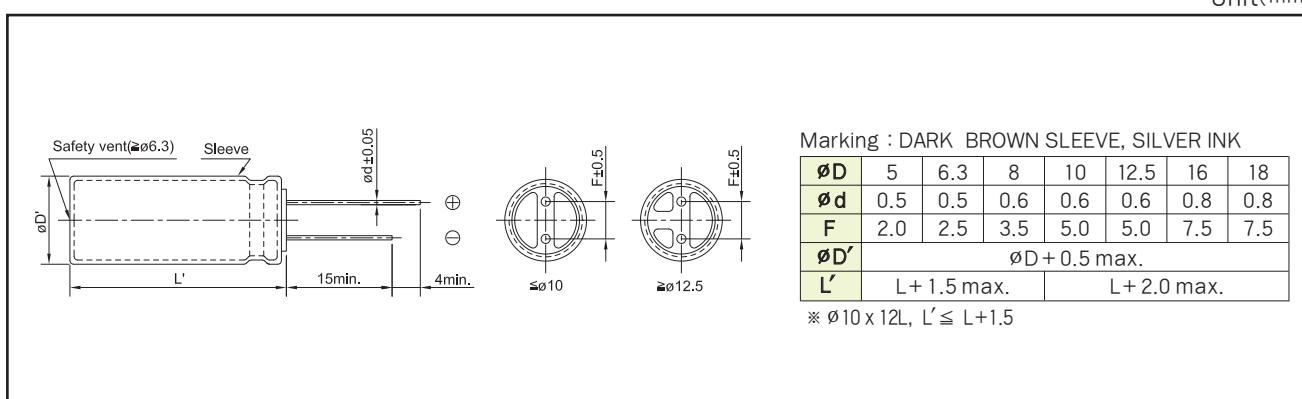
Low Imp.

**SPECIFICATIONS**

Item	Characteristics																			
Rated Voltage Range	6.3 ~ 120 V <sub>DC</sub>																			
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( $\mu A$ ), C:Nominal capacitance( $\mu F$ ), V:Rated voltage( $V_{DC}$ ) (at 20°C, 2 minutes)																			
Dissipation Factor( $\tan\delta$ )	Rated voltage( $V_{DC}$ )	6.3	10	16	25	35	50	63	100	120										
	$\tan\delta$ (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 $\mu F$ , 0.02 shall be added every 1,000 $\mu F$ 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. Capacitance change $\leq \pm 25\%$ of the initial value $\tan\delta$ $\leq 200\%$ of the initial specified value Leakage current $\leq$ The initial specified value																			
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>Case Size( <math>\phi D</math> )</th> <th>Life Time</th> </tr> <tr> <td><math>\phi 5, 6.3</math></td> <td>2,000 hours</td> </tr> <tr> <td><math>\phi 8</math></td> <td>3,000 hours</td> </tr> <tr> <td><math>\phi 10</math></td> <td>4,000 hours</td> </tr> <tr> <td><math>\phi 12.5 \sim</math></td> <td>5,000 hours</td> </tr> </table>										Case Size( $\phi D$ )	Life Time	$\phi 5, 6.3$	2,000 hours	$\phi 8$	3,000 hours	$\phi 10$	4,000 hours	$\phi 12.5 \sim$	5,000 hours
Case Size( $\phi D$ )	Life Time																			
$\phi 5, 6.3$	2,000 hours																			
$\phi 8$	3,000 hours																			
$\phi 10$	4,000 hours																			
$\phi 12.5 \sim$	5,000 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 $\leq \pm 25\%$ of the initial value $\tan\delta$ $\leq 200\%$ of the initial specified value Leakage current $\leq$ The initial specified value																			
Others	Satisfied characteristics KS C IEC 60384-4																			

**DIMENSIONS OF NXB Series**

Unit(mm)





# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

## RATINGS OF NXB Series

V <sub>DC</sub> ΦDXL(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	
5×11	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
6.3×15	560	0.10	0.32	646	470	0.10	0.32	646	220	0.13	0.36	405
8×11.5	820	0.072	0.22	760	330	0.094	0.28	600	330	0.10	0.32	646
8×15	1,200	0.060	0.18	818	1,000	0.060	0.18	818	470	0.072	0.22	760
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
10×12.5	1,200	0.053	0.16	1,360	1,000	0.053	0.16	1,360	680	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
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

V <sub>DC</sub> ΦDXL(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	
5×11	68	0.30	1.0	250	47	0.30	1.0	250	1	2.50	8.68	53
6.3×11	150	0.13	0.41	405	100	0.13	0.41	405	2.2	2.50	8.68	56
6.3×15	220	0.10	0.32	646	150	0.10	0.32	646	4.7	1.50	5.21	82
8×11.5	220	0.072	0.22	760	150	0.072	0.22	760	10	1.0	3.47	250
8×15	390	0.060	0.18	818	270	0.060	0.18	818	22	0.30	1.04	250
8×20	560	0.050	0.16	1,260	390	0.050	0.16	1,260	27	0.30	1.04	250
10×12	330	0.053	0.16	1,360	220	0.053	0.16	1,360	47	0.14	0.50	350
10×12.5	470	0.053	0.16	1,360	330	0.053	0.16	1,360	56	0.14	0.50	385
10×16	470	0.038	0.12	1,430	470	0.038	0.12	1,430	100	0.10	0.32	646
10×20	680	0.038	0.12	1,430	560	0.023	0.069	1,820	100	0.072	0.21	724
10×25	820	0.023	0.069	1,820	680	0.023	0.069	1,820	120	0.060	0.24	818
12.5×16	680	0.025	0.075	1,900	680	0.022	0.066	2,150	180	0.050	0.18	1,260
12.5×20	1,000	0.022	0.066	2,150	680	0.022	0.066	2,150	150	0.061	0.18	979
12.5×25	1,800	0.020	0.050	2,770	1,000	0.020	0.050	2,770	150	0.061	0.18	979
12.5×30	2,200	0.020	0.050	3,000	1,200	0.020	0.050	2,770	220	0.042	0.12	1,370
12.5×35	2,700	0.017	0.044	3,400	1,800	0.017	0.044	3,400	330	0.030	0.090	1,580
16×15	820	0.040	0.101	1,375	560	0.040	0.101	1,375	470	0.028	0.085	1,870
16×20	2,200	0.021	0.053	3,140	1,500	0.021	0.053	3,140	470	0.027	0.068	2,050
16×25	3,300	0.019	0.051	3,460	1,800	0.019	0.051	3,460	560	0.023	0.059	2,410
16×31.5	3,300	0.013	0.035	3,680	2,200	0.013	0.035	3,680	680	0.021	0.052	2,860
18×20	2,200	0.020	0.052	3,265	1,500	0.020	0.052	3,265	820	0.019	0.051	2,960
18×25	2,700	0.018	0.049	3,611	1,800	0.018	0.049	3,611	470	0.028	0.085	1,196
18×31.5	3,300	0.013	0.035	3,680	2,200	0.013	0.035	3,680	820	0.023	0.059	2,730
18×40	4,700	0.013	0.035	4,700	3,300	0.013	0.035	4,700	1,000	0.021	0.056	3,010
18×50	6,800	0.013	0.035	6,800	4,700	0.013	0.035	6,800	1,500	0.014	0.037	3,201
18×63	8,200	0.018	0.049	8,200	6,800	0.018	0.049	8,200	2,200	0.020	0.053	3,140

**RATINGS OF NXB Series**

V <sub>DC</sub> ØD×L(mm)	63			
	μF	IMP.		Ripple
		20°C	-10°C	
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

V <sub>DC</sub> ØD×L(mm)	100			120			
	μF	IMP.		Ripple	μF	IMP.	
		20°C	-10°C			20°C	-10°C
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
10×12	33	0.25	1.0	450	33	0.25	1.0
10×12.5	33	0.25	1.0	450	33	0.25	1.0
10×16	47	0.20	0.80	580	47	0.20	0.80
12.5×20	100	0.10	0.40	1,045	100	0.10	0.40
12.5×25	150	0.070	0.28	1,195	120	0.070	0.28
16×25	220	0.060	0.24	1,600	220	0.060	0.24
16×31.5	330	0.040	0.16	1,750	270	0.040	0.16
	470	0.040	0.16	1,750		270	0.040
18×40	820	0.030	0.12	2,060	560	0.036	0.144

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

**RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Cap.(μF)	Freq.(Hz)	120	1k	10k	50k	100k
		1 ~ 180	220 ~ 560	680 ~ 1,800	2,200 ~ 3,900	4,700 ~ 8,200
	0.40	0.75	0.90	0.95	1.00	
	0.50	0.85	0.94	0.96	1.00	
	0.60	0.87	0.95	0.97	1.00	
	0.75	0.90	0.95	0.97	1.00	
	0.85	0.95	0.98	0.99	1.00	

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for Aluminium Electrolytic Capacitors - Radial Leaded category:***

***Click to view products by SamYoung manufacturer:***

Other Similar products are found below :

[NRELS102M35V16X16C.140LLF](#) [ESRG160ETC100MD07D](#) [227RZS050M](#) [335CKR250M](#) [476CKH100MSA](#) [477CKR100M](#)  
[107CKR010M](#) [107CKH063MSA](#) [RJH-25V222MI9#](#) [RJH-35V221MG5#](#) [B43827A1106M8](#) [RJH-50V221MH6#](#) [EKYA500ELL470MF11D](#)  
[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)  
[EKZH160ETD152MJ20S](#) [RJH-35V122MJ6#](#) [EGXF630ELL621ML20S](#) [RBD-25V100KE3#N](#) [EKMA350ELL100ME07D](#)  
[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKGMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)  
[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)  
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKGMG500ETD221MJC5S](#) [LKMK2502W101MF](#)  
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)  
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)