

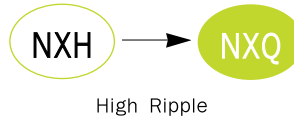
## MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



### NXQ Series

• 105°C 6,000 ~ 10,000Hrs assured.

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



### SPECIFICATIONS

Item	Characteristics																																																	
Rated Voltage Range	6.3 ~ 100 V <sub>DC</sub>																																																	
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 <sub>DC</sub> ) (at 20°C, 2minutes)																																																	
Dissipation Factor (Tanδ)	<table border="1"> <tr> <td>Rated Voltage(V<sub>DC</sub>)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>Tanδ(Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.08</td> </tr> </table> <p>When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase (at 20°C, 120Hz)</p>	Rated Voltage(V <sub>DC</sub> )	6.3	10	16	25	35	50	63	80	100	Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08																													
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Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <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> <p>(at 120Hz)</p>	Z(-25°C)/Z(+20°C)	2	Z(-40°C)/Z(+20°C)	3																																													
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Load Life	<p>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 at 105°C for the specified period of time.</p> <table border="1"> <tr> <td>Rated voltage(V<sub>DC</sub>)</td> <td>6.3~10</td> <td>16~100</td> <td>∅D</td> <td colspan="3">Life time</td> </tr> <tr> <td>Capacitance change</td> <td>≤ ±30% of the initial value</td> <td>≤ ±25% of the initial value</td> <td>∅5~∅6.3</td> <td>6.3V<sub>DC</sub></td> <td>10~50V<sub>DC</sub></td> <td>63~100V<sub>DC</sub></td> </tr> <tr> <td>Tanδ</td> <td colspan="2">≤ 200% of the initial specified value</td> <td>∅8 X 11.5L</td> <td>6,000hours</td> <td>7,000hours</td> <td>6,000hours</td> </tr> <tr> <td>Leakage current</td> <td colspan="2">≤ The initial specified value</td> <td>∅8 X 15L~20L</td> <td>8,000hours</td> <td>9,000hours</td> <td>8,000hours</td> </tr> <tr> <td></td> <td></td> <td></td> <td>∅10 X 12.5L</td> <td>9,000hours</td> <td>10,000hours</td> <td>9,000hours</td> </tr> <tr> <td></td> <td></td> <td></td> <td>∅10 X 16L~25L</td> <td colspan="3">9,000hours</td> </tr> <tr> <td></td> <td></td> <td></td> <td>∅12.5~</td> <td colspan="3">10,000hours</td> </tr> </table>	Rated voltage(V <sub>DC</sub> )	6.3~10	16~100	∅D	Life time			Capacitance change	≤ ±30% of the initial value	≤ ±25% of the initial value	∅5~∅6.3	6.3V <sub>DC</sub>	10~50V <sub>DC</sub>	63~100V <sub>DC</sub>	Tanδ	≤ 200% of the initial specified value		∅8 X 11.5L	6,000hours	7,000hours	6,000hours	Leakage current	≤ The initial specified value		∅8 X 15L~20L	8,000hours	9,000hours	8,000hours				∅10 X 12.5L	9,000hours	10,000hours	9,000hours				∅10 X 16L~25L	9,000hours						∅12.5~	10,000hours		
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Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 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.</p> <table border="1"> <tr> <td>Rated voltage(V<sub>DC</sub>)</td> <td>6.3~10</td> <td>16~100</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 <sub>DC</sub> )	6.3~10	16~100	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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Others	Satisfied characteristics W of KS C 6421																																																	

### DIMENSIONS OF NXQ Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK

∅D	5	6.3	8	10	12.5	16	18
∅d	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
∅D'	∅D + 0.5 max.						
L'	L + 1.5 max.			L + 2.0 max.			

NXQ Series



## MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

### RATINGS OF NXQ Series

V <sub>dc</sub> ∅D×L(mm)	6.3			10			16		
	μF	IMP.	Ripple	μF	IMP.	Ripple	μF	IMP.	Ripple
5×11	220	0.40	345	150	0.40	450	120	0.40	450
6.3×11	470	0.17	540	330	0.17	700	270	0.17	700
8×11.5	820	0.075	945	560	0.075	1,200	470	0.075	1,200
8×15	1,000	0.059	1,250	680	0.059	1,600	560	0.059	1,600
8×20	1,500	0.041	1,500	1,000	0.041	1,960	820	0.041	1,960
10×12.5	1,200	0.053	1,500	820	0.053	1,700	680	0.053	1,700
10×16	1,800	0.038	1,760	1,200	0.038	2,000	1,000	0.038	2,000
10×20	2,700	0.028	1,960	1,800	0.028	2,500	1,500	0.028	2,500
10×25	3,300	0.024	2,250	2,200	0.024	2,900	1,800	0.024	2,900
12.5×20	3,900	0.025	2,480	2,700	0.025	2,600	2,200	0.025	2,600
12.5×25	4,700	0.019	2,900	3,300	0.019	3,050	2,700	0.019	3,050
12.5×30	5,600	0.018	3,450	4,700	0.018	3,500	3,300	0.018	3,500
12.5×35	6,800	0.016	3,570	5,600	0.016	3,600	3,900	0.016	3,600
16×20	6,800	0.021	3,250	4,700	0.021	3,250	3,300	0.021	3,250
16×25	8,200	0.017	3,630	5,600	0.017	3,630	4,700	0.017	3,630

V <sub>dc</sub> ∅D×L(mm)	25			35			50		
	μF	IMP.	Ripple	μF	IMP.	Ripple	μF	IMP.	Ripple
5×11	68	0.40	450	47	0.40	450	27	0.48	310
6.3×11	150	0.17	700	100	0.17	700	56	0.22	500
8×11.5	330	0.075	1,200	180	0.075	1,200	100	0.120	950
8×15	390	0.059	1,600	220	0.059	1,600	120	0.082	1,230
8×20	560	0.041	1,960	330	0.041	1,960	180	0.058	1,580
10×12.5	470	0.053	1,700	270	0.053	1,700	150	0.073	1,280
10×16	680	0.038	2,000	390	0.038	2,000	220	0.053	1,650
10×20	1,000	0.028	2,500	560	0.028	2,500	330	0.038	2,060
10×25	1,200	0.024	2,900	680	0.024	2,900	390	0.032	2,240
12.5×20	1,500	0.025	2,600	820	0.025	2,600	470	0.032	2,200
12.5×25	1,800	0.019	3,050	1,200	0.019	3,050	680	0.025	2,500
12.5×30	2,200	0.018	3,500	1,500	0.018	3,500	820	0.023	3,100
12.5×35	2,700	0.016	3,600	1,800	0.016	3,600	1,000	0.021	3,250
16×20	2,200	0.021	3,250	1,500	0.021	3,250	820	0.026	2,730
16×25	3,300	0.017	3,630	1,800	0.017	3,630	1,000	0.022	3,010

Rated Ripple Current (mArms/105°C, 100kHz)  
 Impedance (Ω max./20°C, 100kHz)  
 Nominal Capacitance(μF)

## MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



### RATINGS OF NXQ Series

V <sub>DC</sub> ∅D×L(mm)	63		
	μF	IMP.	Ripple
5×11	18	0.71	240
6.3×11	47	0.28	420
8×11.5	82	0.18	720
8×15	100	0.13	990
8×20	150	0.096	1,200
10×12.5	120	0.110	990
10×16	180	0.076	1,200
10×20	270	0.056	1,570
10×25	330	0.046	1,990
12.5×20	390	0.041	1,990
12.5×25	470	0.031	2,460
12.5×30	560	0.028	2,760
12.5×35	680	0.024	3,040
16×20	560	0.032	2,150
16×25	820	0.025	2,550

V <sub>DC</sub> ∅D×L(mm)	80			100		
	μF	IMP.	Ripple	μF	IMP.	Ripple
5×11	12	1.2	220	8.2	1.2	220
6.3×11	27	0.46	370	18	0.46	370
8×11.5	47	0.29	620	33	0.29	620
8×15	56	0.20	780	47	0.20	780
8×20	82	0.16	1,040	68	0.16	1,040
10×12.5	68	0.17	780	47	0.17	780
10×16	100	0.11	1,040	68	0.11	1,040
10×20	150	0.084	1,430	100	0.084	1,430
10×25	180	0.069	1,620	120	0.069	1,620
12.5×16	150	0.110	1,430	100	0.11	1,430
12.5×20	220	0.062	1,750	150	0.062	1,750
12.5×25	270	0.047	2,210	220	0.047	2,210
12.5×30	330	0.042	2,400	270	0.042	2,400
12.5×35	390	0.036	2,600	330	0.036	2,600
12.5×40	470	0.032	2,860	390	0.032	2,860
16×20	330	0.048	1,950	270	0.048	1,950
16×25	470	0.038	2,430	390	0.038	2,430
16×31.5	560	0.032	2,640	470	0.032	2,640
16×35.5	680	0.029	2,860	560	0.029	2,860
16×40	820	0.027	3,510	680	0.027	3,510
18×20	470	0.045	2,270	390	0.045	2,270
18×25	680	0.036	2,500	470	0.036	2,500
18×31.5	820	0.030	2,860	560	0.030	2,860
18×35.5	1,000	0.027	3,510	680	0.027	3,510
18×40	1,200	0.026	3,860	820	0.026	3,860

Rated Ripple Current (mArms/105°C, 100kHz)  
 Impedance (Ω max./20°C, 100kHz)  
 Nominal Capacitance(μF)

### RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1k	10k	50k	100k
8.2 ~ 33	0.42	0.70	0.90	0.93	1.00
47 ~ 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 ~ 8,200	0.70	0.85	0.98	0.99	1.00

NXQ Series

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