



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

NXH 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

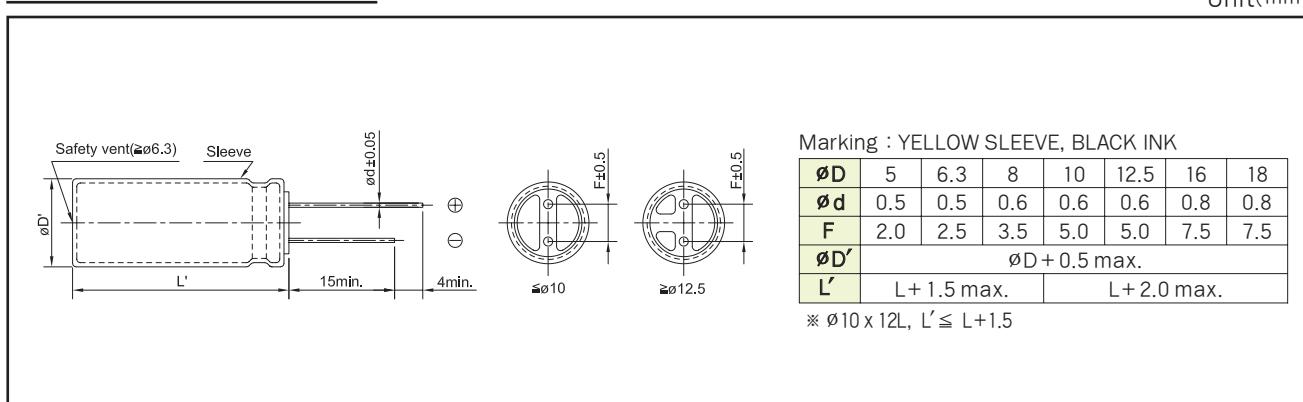


SPECIFICATIONS

Item	Characteristics																		
Rated Voltage Range	6.3 ~ 100 Vdc																		
Operating Temperature Range	-40 ~ +105°C																		
Capacitance Tolerance	$\pm 20\% (M)$ (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(Vdc) (at 20°C, 2 minutes)																		
Dissipation Factor(Tanδ)	Rated voltage(Vdc)	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									
	When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)																		
Temperature Characteristics (Max. Impedance ratio)	Z(-25°C)/Z(+20°C)	2																	
	Z(-40°C)/Z(+20°C)	3																	
	(at 120Hz)																		
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(Vdc)	6.3~10		16~100		ØD Life Time													
	Capacitance change	$\leq \pm 30\%$ of the initial value		$\leq \pm 25\%$ of the initial value		Ø5~ Ø6.3 6,000 hours													
	Tan δ	$\leq 200\%$ of the initial specified value				Ø8 8,000 hours													
	Leakage current	\leq The initial specified value				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(Vdc)	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)





MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF NXH Series

V _{DC} ØD×L(mm)	63			
	μF	IMP.		Ripple
		20°C	-10°C	
5×11	18	0.45	1.8	173
6.3×11	47	0.30	1.2	278
8×11.5	82	0.20	0.80	525
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	
5×11	12	1.2	5.33	163	8.2	1.2	5.33	163
6.3×11	33	0.46	2.03	267	18	0.46	2.03	267
8×11.5	56	0.29	1.31	462	33	0.29	1.31	462
8×15	68	0.20	0.90	585	47	0.20	0.90	585
8×20	100	0.16	0.72	735	68	0.16	0.72	735
10×12	82	0.17	0.68	624	47	0.17	0.68	624
10×12.5	82	0.17	0.68	624	47	0.17	0.68	624
10×16	120	0.11	0.44	780	68	0.11	0.44	780
10×20	180	0.084	0.35	1,040	100	0.084	0.35	1,040
10×25	220	0.069	0.28	1,170	120	0.069	0.28	1,170
12.5×16	180	0.11	0.33	975	100	0.11	0.33	975
12.5×20	270	0.062	0.19	1,430	150	0.062	0.19	1,430
12.5×25	330	0.047	0.15	1,620	220	0.047	0.15	1,620
12.5×30	390	0.042	0.14	1,950	270	0.042	0.14	1,950
12.5×35	470	0.036	0.11	2,140	330	0.036	0.11	2,140
12.5×40	560	0.032	0.096	2,340	390	0.032	0.096	2,340
16×20	390	0.048	0.16	1,750	270	0.048	0.16	1,750
16×25	560	0.038	0.11	2,210	390	0.038	0.11	2,210
16×31.5	680	0.032	0.096	2,400	470	0.032	0.096	2,400
16×35.5	820	0.029	0.087	2,600	560	0.029	0.087	2,600
16×40	1,000	0.027	0.081	2,860	680	0.027	0.081	2,860
18×20	560	0.045	0.14	1,950	390	0.045	0.14	1,950
18×25	820	0.036	0.11	2,270	470	0.036	0.11	2,270
18×31.5	1,000	0.030	0.090	2,470	560	0.030	0.090	2,470
18×35.5	1,200	0.027	0.081	2,860	680	0.027	0.081	2,860
18×40	1,500	0.026	0.078	3,510	820	0.026	0.078	3,510

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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
2.2 ~ 22		0.40	0.66	0.85	0.90	1.00
27 ~ 33		0.42	0.70	0.90	0.93	1.00
39 ~ 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 ~ 10,000		0.70	0.85	0.98	0.99	1.00