NXW Series

• 105℃ 6,000~10,000Hrs assured.

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

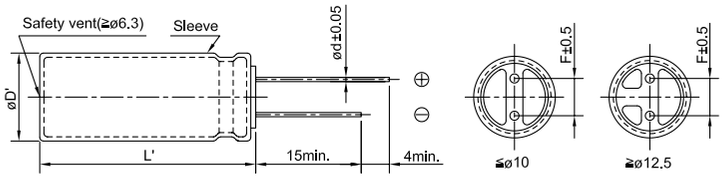
NXQ → NXW
High Ripple

SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	6.3 ~ 50 V_{DC}
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(V_{DC}) (at 20℃, 2minutes)
Dissipation Factor(Tanδ)	Rated voltage(V_{DC}): 6.3 / 10 / 16 / 25 / 35 / 50 Tanδ(Max.): 0.22 / 0.19 / 0.16 / 0.14 / 0.12 / 0.10 Where 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 ≤ ±30 % of the initial value tan δ ≤ 200 % of the initial specified value Leakage current ≤ The initial specified value Case Size / Life Time: ø5~ø6.3 / 6,000hours; ø8 / 8,000hours; ø10 X 12L~12.5L / 9,000hours; ø10 X 16L~25L, ø12.5~ / 10,000hours
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 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 ≤ ±30 % of the initial value tan δ ≤ 200 % of the initial specified value Leakage current ≤ The initial specified value
Others	Satisfied characteristics KS C IEC 60384-4

DIMENSIONS OF NXW Series

Unit(mm)



Marking : DARK BROWN SLEEVE, SILVER INK

øD	5	6.3	8	10	12.5	16
ød	0.5	0.5	0.6	0.6	0.6	0.8
F	2.0	2.5	3.5	5.0	5.0	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 NXW Series

Vdc / ØD×L(mm)	6.3				10				16			
	μF	IMP. 20℃	IMP. -10℃	RIpple	μF	IMP. 20℃	IMP. -10℃	RIpple	μF	IMP. 20℃	IMP. -10℃	RIpple
5×11	220	0.34	1.11	380	150	0.34	1.11	495	120	0.34	1.11	495
6.3×11	470	0.14	0.47	594	330	0.14	0.47	770	270	0.14	0.47	770
8×11.5	820	0.064	0.21	1,040	560	0.064	0.21	1,320	470	0.064	0.21	1,320
8×15	1,000	0.050	0.16	1,375	680	0.050	0.16	1,760	560	0.050	0.16	1,760
8×20	1,500	0.035	0.11	1,650	1,000	0.035	0.11	2,156	820	0.035	0.11	2,156
10×12	1,200	0.045	0.14	1,620	820	0.045	0.14	1,836	680	0.045	0.14	1,836
10×12.5	1,200	0.045	0.14	1,620	820	0.045	0.14	1,836	680	0.045	0.14	1,836
10×16	1,800	0.032	0.10	1,901	1,200	0.032	0.10	2,160	1,000	0.032	0.10	2,160
10×20	2,700	0.024	0.074	2,117	1,800	0.024	0.074	2,700	1,500	0.024	0.074	2,700
10×25	3,300	0.020	0.063	2,430	2,200	0.020	0.063	3,132	1,800	0.020	0.063	3,132
12.5×20	3,900	0.021	0.066	2,678	2,700	0.021	0.066	2,808	2,200	0.021	0.066	2,808
12.5×25	4,700	0.016	0.050	3,132	3,300	0.016	0.050	3,294	2,700	0.016	0.050	3,294
12.5×30	5,600	0.015	0.047	3,726	4,700	0.015	0.047	3,780	3,300	0.015	0.047	3,780
12.5×35	6,800	0.014	0.042	3,856	5,600	0.014	0.042	3,888	3,900	0.014	0.042	3,888
16×20	6,800	0.018	0.055	3,413	4,700	0.018	0.055	3,413	3,300	0.018	0.055	3,413
16×25	8,200	0.014	0.045	3,812	5,600	0.014	0.045	3,812	4,700	0.014	0.045	3,812

Vdc / ØD×L(mm)	25				35				50			
	μF	IMP. 20℃	IMP. -10℃	RIpple	μF	IMP. 20℃	IMP. -10℃	RIpple	μF	IMP. 20℃	IMP. -10℃	RIpple
5×11	68	0.34	1.11	495	47	0.34	1.11	495	27	0.43	1.39	341
6.3×11	150	0.14	0.47	770	100	0.14	0.47	770	56	0.20	0.64	550
8×11.5	330	0.064	0.21	1,320	180	0.064	0.21	1,320	100	0.11	0.36	1,045
8×15	390	0.050	0.16	1,760	220	0.050	0.16	1,760	120	0.074	0.24	1,353
8×20	560	0.035	0.11	2,156	330	0.035	0.11	2,156	180	0.053	0.17	1,738
10×12	470	0.045	0.14	1,836	270	0.045	0.14	1,836	150	0.062	0.19	1,382
10×12.5	470	0.045	0.14	1,836	270	0.045	0.14	1,836	150	0.062	0.19	1,382
10×16	680	0.032	0.10	2,160	390	0.032	0.10	2,160	220	0.045	0.14	1,782
10×20	1,000	0.024	0.074	2,700	560	0.024	0.074	2,700	330	0.032	0.10	2,305
10×25	1,200	0.020	0.063	3,132	680	0.020	0.063	3,132	390	0.027	0.08	2,419
12.5×20	1,500	0.021	0.066	2,808	820	0.021	0.066	2,808	470	0.027	0.08	2,376
12.5×25	1,800	0.016	0.050	3,294	1,200	0.016	0.050	3,294	680	0.021	0.066	2,700
12.5×30	2,200	0.015	0.047	3,780	1,500	0.015	0.047	3,780	820	0.020	0.061	3,348
12.5×35	2,700	0.014	0.042	3,888	1,800	0.014	0.042	3,888	1,000	0.018	0.055	3,510
16×20	2,200	0.018	0.055	3,413	1,500	0.018	0.055	3,413	820	0.022	0.069	2,867
16×25	3,300	0.014	0.045	3,812	1,800	0.014	0.045	3,812	1,000	0.019	0.058	3,161

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

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz) / Cap.(μF)	120	1k	10k	50k	100k
27～33	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