NXG Series

• 105℃ 3,000~4,000Hrs assured.

- Non-solvent proof.
- Ultra Low Impedance/ESR, High ripple, Long Life.
- For LED TV BLU Inverter, SMPS, IO-Board, Adaptor.
- RoHS compliant.
- Halogen-free capacitors are also available.

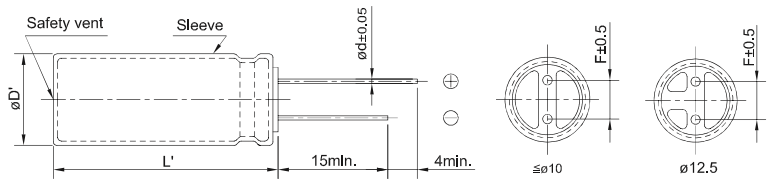
NXE → NXG
High Ripple

SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	6.3 ~ 35 V_{DC}
Operating Temperature Range	-40 ~ + 105℃
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I = 0.03CV(μA) or 4μA, Whichever is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V_{DC}) (at 20℃, 2 minutes)
Dissipation Factor (Tanδ)	Rated Voltage(V_{DC}): 6.3 / 10 / 16 / 25 / 35 Tanδ(Max.): 0.22 / 0.19 / 0.16 / 0.14 / 0.12 When 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 spcified period of time. Capacitance change ≦ ±25% of the initial value Tanδ ≦ 200% of the initial specified value Leakage current ≦ The initial specified value ØD: Life Time — Ø8: 3,000 hours; Ø10~: 4,000 hours
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 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 ≦ ±25% of the initial value Tanδ ≦ 200% of the initial specified value Leakage current ≦ 200% of the initial specified value
Others	Satisfied characteristics KS C IEC 60384-4

DIMENSIONS OF NXG Series

Unit(mm)



Marking : DARK BROWN SLEEVE, SILVER INK

ØD	8	10	12.5
Ød	0.6	0.6	0.6
F	3.5	5.0	5.0
ØD'	ØD+0.5 max.		
L'	L+1.5max.	L+2.0max.	

※ Ø10 x 12L, L'≦ L+1.5

RATINGS OF NXG series

WVDC	6.3			
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	ESR	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
820	8×11.5	1,700	0.036	0.11
1,200	8×15	2,300	0.028	0.085
1,800	8×20	2,600	0.019	0.057
1,500	10×12	2,200	0.030	0.091
1,500	10×12.5	2,200	0.030	0.091
1,800	10×16	2,800	0.019	0.057
2,200	10×20	3,000	0.013	0.039
3,300	10×25	3,270	0.012	0.036

WVDC	10			
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	ESR	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
680	8×11.5	1,700	0.036	0.11
1,000	8×15	2,300	0.028	0.085
1,500	8×20	2,600	0.019	0.057
1,000	10×12	2,200	0.030	0.091
1,000	10×12.5	2,200	0.030	0.091
1,200	10×16	2,800	0.019	0.057
1,500	10×16	2,800	0.019	0.057
1,800	10×20	3,000	0.013	0.039
2,200	10×25	3,270	0.012	0.036

WVDC	16			
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	ESR	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
470	8×11.5	1,700	0.036	0.11
680	8×15	2,300	0.028	0.085
1,000	8×20	2,600	0.019	0.057
680	10×12	2,200	0.030	0.091
680	10×12.5	2,200	0.030	0.091
1,000	10×16	2,800	0.019	0.057
1,500	10×20	3,000	0.013	0.039
1,800	10×25	3,270	0.012	0.036

WVDC	25			
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	ESR	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
220	8×11.5	1,700	0.036	0.11
390	8×15	2,300	0.028	0.085
560	8×20	2,600	0.019	0.057
470	10×12	2,200	0.030	0.091
470	10×12.5	2,200	0.030	0.091
680	10×16	2,800	0.019	0.057
820	10×20	3,000	0.013	0.039
1,000	10×25	3,270	0.012	0.036
1,200	12.5×20	3,510	0.014	0.042

WVDC	35			
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃, 100kHz)	ESR	
			(Ω max./20℃, 100kHz)	(Ω max./-10℃, 100kHz)
150	8×11.5	1,700	0.036	0.11
270	8×15	2,300	0.028	0.085
390	8×20	2,600	0.019	0.057
330	10×12	2,200	0.030	0.091
330	10×12.5	2,200	0.030	0.091
470	10×16	2,800	0.019	0.057
560	10×20	3,000	0.013	0.039
680	10×25	3,270	0.012	0.036

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz) / Cap.(μF)	120	1k	10k	50k	100k
150 ~ 560	0.50	0.85	0.94	0.96	1.00
680 ~ 1,800	0.60	0.87	0.95	0.97	1.00
2,200 ~ 3,300	0.75	0.90	0.95	0.97	1.00