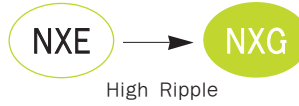


## NXG Series

• 105°C 3,000~4,000Hrs assured.

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



### SPECIFICATIONS

Item	Characteristics												
Rated Voltage Range	6.3 ~ 35 V <sub>DC</sub>												
Operating Temperature Range	-40 ~ + 105°C												
Capacitance Tolerance	±20% (M) (at 20°C, 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 <sub>DC</sub> ) (at 20°C, 2 minutes)												
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> </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> </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	Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12
Rated Voltage(V <sub>DC</sub> )	6.3	10	16	25	35								
Tanδ(Max.)	0.22	0.19	0.16	0.14	0.12								
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								
Z(-25°C) / Z(+20°C)	2												
Z(-40°C) / Z(+20°C)	3												
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 (the peak voltage shall not exceed the rated voltage) at 105°C for the specified period of time.</p> <table border="1"> <tr> <td>∅D</td> <td>Life Time</td> </tr> <tr> <td>∅8</td> <td>3,000 hours</td> </tr> <tr> <td>∅10~</td> <td>4,000 hours</td> </tr> </table> <p>Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>	∅D	Life Time	∅8	3,000 hours	∅10~	4,000 hours						
∅D	Life Time												
∅8	3,000 hours												
∅10~	4,000 hours												
Shelf Life	<p>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.</p> <p>Capacitance change ≤ ±25% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ 200% of the initial specified value</p>												
Others	Satisfied characteristics KS C IEC 60384-4												

### DIMENSIONS OF NXG Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK

∅D	8	10	12.5
∅d	0.6	0.6	0.6
F	3.5	5.0	5.0
∅D'	∅D + 0.5 max.		
L'	L + 1.5 max.	L + 2.0 max.	

※ ∅10 x 12L, L' ≤ L + 1.5

RATINGS OF NXG series

Vdc		6.3		
Items μF	ø D × L (mm)	Rated Ripple Current (mArms/105°C, 100kHz)	ESR	
			( Q max./20°C, 100kHz)	( Q max./-10°C, 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

Vdc		10		
Items μF	ø D × L (mm)	Rated Ripple Current (mArms/105°C, 100kHz)	ESR	
			( Q max./20°C, 100kHz)	( Q max./-10°C, 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

Vdc		16		
Items μF	ø D × L (mm)	Rated Ripple Current (mArms/105°C, 100kHz)	ESR	
			( Q max./20°C, 100kHz)	( Q max./-10°C, 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

Vdc		25		
Items μF	ø D × L (mm)	Rated Ripple Current (mArms/105°C, 100kHz)	ESR	
			( Q max./20°C, 100kHz)	( Q max./-10°C, 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

Vdc		35		
Items μF	ø D × L (mm)	Rated Ripple Current (mArms/105°C, 100kHz)	ESR	
			( Q max./20°C, 100kHz)	( Q max./-10°C, 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

Cap.(μF) \ Freq.(Hz)	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