

## NZK Series

- 105°C 5,000Hrs assured.

- For car air bag circuit.
- RoHS compliant.
- Halogen-free capacitors are also available.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

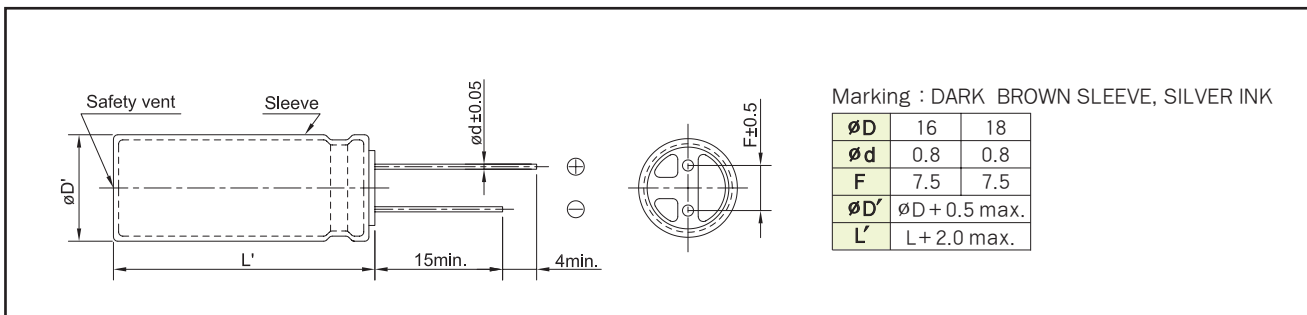


## SPECIFICATIONS

Item	Characteristics						
Rated Voltage Range	25 ~ 35 V <sub>DC</sub>						
Operating Temperature Range	-55 ~ +105°C						
Capacitance Tolerance	0% ~ 30%(S) (at 20°C, 120Hz)						
Leakage Current	$I = 0.01CV(\mu A)$ Where, I:Max. Leakage current( $\mu A$ ), C:Nominal capacitance( $\mu F$ ), V:Rated voltage(V <sub>DC</sub> ) (at 20°C, 2 minutes)						
Dissipation Factor(Tan $\delta$ )	<table border="1"> <tr> <td>Rated Voltage(V<sub>DC</sub>)</td> <td>25</td> <td>35</td> </tr> <tr> <td>Tan<math>\delta</math>(Max.)</td> <td>0.20</td> <td>0.16</td> </tr> </table> When the capacitance exceeds 1,000 $\mu F$ , 0.02 shall be added every 1,000 $\mu F$ increase. (at 20°C, 120Hz)	Rated Voltage(V <sub>DC</sub> )	25	35	Tan $\delta$ (Max.)	0.20	0.16
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Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V<sub>DC</sub>)</td> <td>25~35</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>3</td> </tr> </table> (at 120Hz)	Rated Voltage(V <sub>DC</sub> )	25~35	Z(-55°C)/Z(+20°C)	3		
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Z(-55°C)/Z(+20°C)	3						
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) for 5,000 hours at 105°C. Capacitance change $\leq$ $\pm 30\%$ of the initial value Tan $\delta$ $\leq$ 300% of the initial specified value Leakage current $\leq$ The initial specified value						
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. Capacitance change $\leq$ $\pm 30\%$ of the initial value Tan $\delta$ $\leq$ 300% of the initial specified value Leakage current $\leq$ The initial specified value						
Others	Satisfied characteristics KS C IEC 60384-4						

## DIMENSIONS OF NZK Series

Unit(mm)



**RATINGS OF NZK Series**

V <sub>bc</sub>	Capacitance (μF)	∅ D × L (mm)	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100Hz)
25	4400	16 × 20	0.030	2200
	5700	16 × 25	0.024	2500
	5900	18 × 20	0.028	2400
	7300	16 × 31.5	0.020	2700
	7700	18 × 25	0.022	2700
	9000	16 × 35.5	0.018	3050
	10000	16 × 40	0.016	3200
	12000	18 × 35.5	0.016	3500
	14000	18 × 40	0.015	3800
35	2800	16 × 20	0.030	2000
	3600	16 × 25	0.024	2400
	3700	18 × 20	0.028	2250
	4700	16 × 31.5	0.020	2550
	4800	18 × 25	0.022	2550
	5700	16 × 35.5	0.018	2800
	6500	16 × 40	0.016	2900
	6800	18 × 31.5	0.018	2950
	7800	18 × 35.5	0.016	3050
	9000	18 × 40	0.015	3200

**RATED RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Freq.(Hz) Cap.(μF)	120	1k	10k	100k
2,100~3,700	0.75	0.90	0.95	1.00
4,200~15,000	0.85	0.95	0.98	1.00