

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.

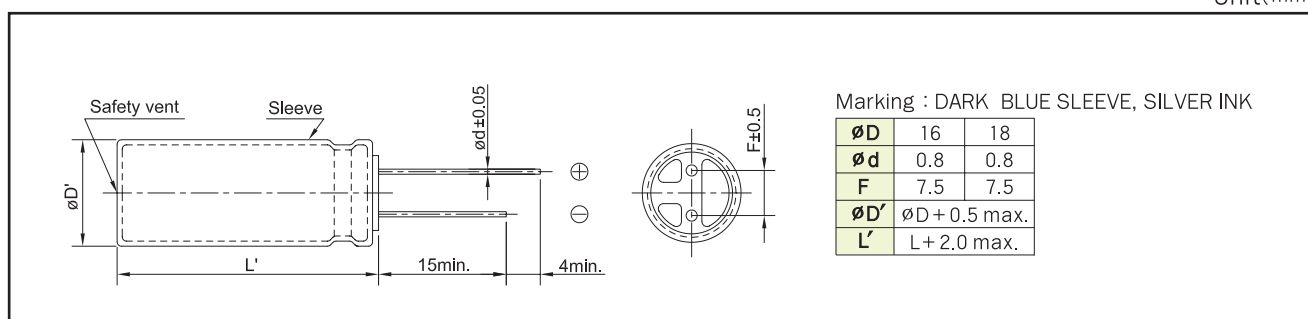


SPECIFICATIONS

Item	Characteristics								
Rated Voltage Range	25 ~ 35 V _{DC}								
Operating Temperature Range	-55 ~ +105℃								
Capacitance Tolerance	0% ~ 30%(S) (at 20℃, 120Hz)								
Leakage Current	I = 0.01CV(μA) Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V _{DC}) (at 20℃, 2 minutes)								
Dissipation Factor(Tanδ)	<table><tr><td>Rated Voltage(V_{DC})</td><td>25</td><td>35</td></tr><tr><td>Tanδ(Max.)</td><td>0.20</td><td>0.16</td></tr></table> When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20℃, 120Hz)			Rated Voltage(V _{DC})	25	35	Tanδ(Max.)	0.20	0.16
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Temperature Characteristics (Max. Impedance ratio)	<table><tr><td>Rated Voltage(V_{DC})</td><td>25~35</td></tr><tr><td>Z(-55℃)/Z(+20℃)</td><td>3</td></tr></table> (at 120Hz)			Rated Voltage(V _{DC})	25~35	Z(-55℃)/Z(+20℃)	3		
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Z(-55℃)/Z(+20℃)	3								
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) for 5,000 hours at 105℃. Capacitance change ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value								
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 ≤ ±30% of the initial value Tanδ ≤ 300% of the initial specified value Leakage current ≤ The initial specified value								
Others	Satisfied characteristics KS C IEC 60384-4								

DIMENSIONS OF NZK Series

Unit(mm)



RATINGS OF NZK Series

V _{dc}	Capacitance (μ F)	$\varnothing$ D × L (mm)	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)
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.(μ F)	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