

NZD Series

- 105°C 5,000Hrs assured.

Solvent-proof



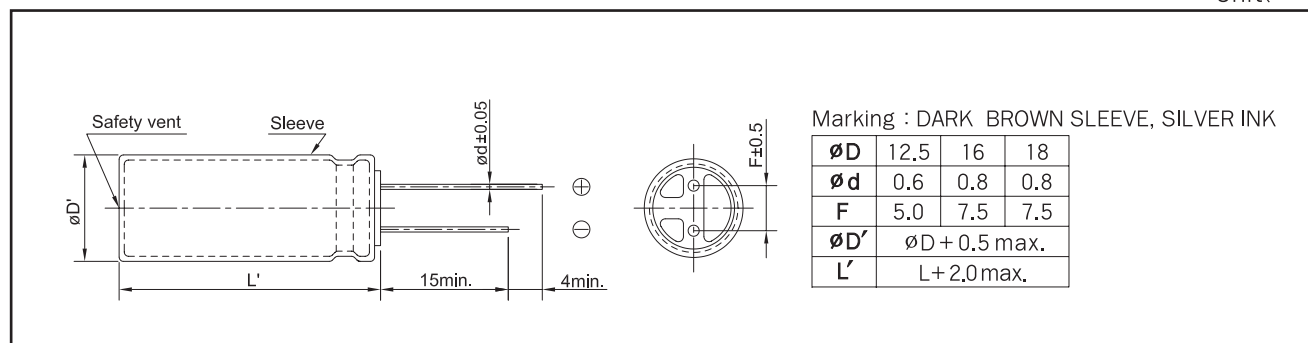
- For car air bag circuit.
- RoHS compliant.
- Halogen-free capacitors are also available.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

SPECIFICATIONS

Item	Characteristics								
Rated Voltage Range	25 ~ 35 V _{DC}								
Operating Temperature Range	-55 ~ +105°C								
Capacitance Tolerance	0% ~ 30%(S) (at 20°C, 120Hz)								
Leakage Current	I = 0.01CV(μA) Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V _{DC}) (at 20°C, 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>0.14</td><td>0.12</td></tr></table> When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)			Rated Voltage(V _{DC})	25	35	Tanδ(Max.)	0.14	0.12
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Temperature Characteristics (Max. Impedance ratio)	<table><tr><td>Rated Voltage(V_{DC})</td><td>25</td><td>35</td></tr><tr><td>Z(-55°C)/Z(20°C)</td><td colspan="2">3</td></tr></table> (at 120Hz)			Rated Voltage(V _{DC})	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 ≤ ±25% of the initial value Tanδ ≤ 200% 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°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 ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value								
Others	Satisfied characteristics KS C IEC 60384-4								

DIMENSIONS OF NZD Series

Unit(mm)





RATINGS OF NZD Series

V _{dc}	25		
μF	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	Impedance (Z _{max} /20°C, 100kHz)
1,800	12.5 × 20	1,700	0.055
2,400	12.5 × 25	2,000	0.045
3,600	16 × 20	2,200	0.041
4,800	18 × 20	2,400	0.036
5,200	16 × 25	2,500	0.033
6,700	18 × 25	2,700	0.028
	16 × 31.5		
8,200	16 × 35.5	3,050	0.026
9,200	18 × 31.5	3,200	0.024
	16 × 40		
11,000	18 × 35.5	3,500	0.019
13,000	18 × 40	3,800	0.017
15,000	18 × 45	4,000	0.015

V _{dc}	35		
μF	ø D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 100kHz)	Impedance (Z _{max} /20°C, 100kHz)
1,100	12.5 × 20	1,500	0.057
1,400	12.5 × 25	1,700	0.054
2,100	16 × 20	2,000	0.047
2,700	18 × 20	2,250	0.042
3,300	16 × 25	2,400	0.037
4,200	18 × 25	2,550	0.033
	16 × 31.5		
5,200	16 × 35.5	2,800	0.031
6,000	18 × 31.5	2,950	0.029
7,100	18 × 35.5	3,050	0.027
8,400	18 × 40	3,200	0.025
9,600	18 × 45	3,400	0.023

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq. (Hz)	120	1k	10k	100k
Cap. (μF)				
1,100 ~ 1,800	0.60	0.87	0.95	1.00
2,100 ~ 3,600	0.75	0.90	0.95	1.00
4,200 ~ 15,000	0.85	0.95	0.98	1.00