

NZE Series

• 105°C 2,000Hrs assured.

- Non-solvent proof.
- Downsized , High ripple.
- For SMPS, IP-Board, Adaptor
- RoHS compliant.
- Halogen-free capacitors are also available.

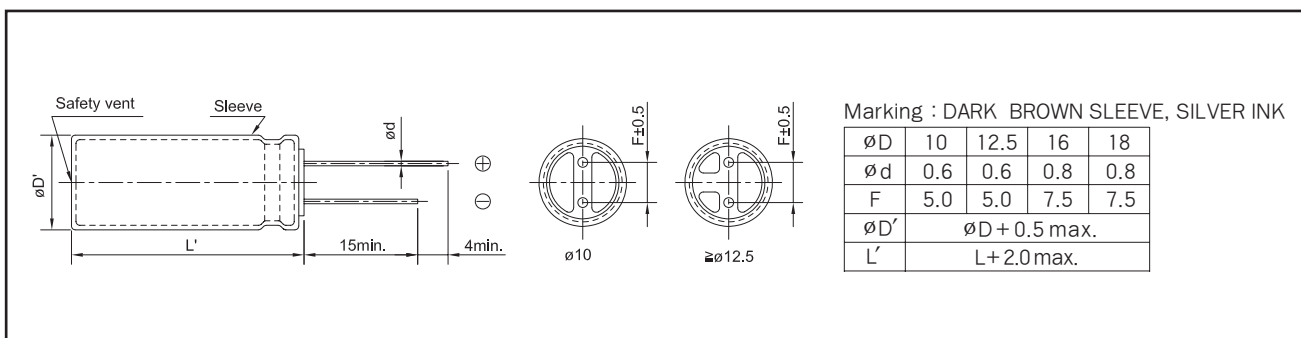


SPECIFICATIONS

Item	Characteristics										
Rated Voltage Range	160 ~ 400 V _{DC}	450 V _{DC}									
Operating Temperature Range	-40 ~ + 105°C	-25 ~ + 105°C									
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	<table border="1"> <thead> <tr> <th>C · V \ Time</th> <th>After 1 minute</th> <th>After 5 minutes</th> </tr> </thead> <tbody> <tr> <td>≤ 1000</td> <td>I = 0.1CV + 40</td> <td>I = 0.03CV + 15</td> </tr> <tr> <td>> 1000</td> <td>I = 0.04CV + 100</td> <td>I = 0.02CV + 25</td> </tr> </tbody> </table>		C · V \ Time	After 1 minute	After 5 minutes	≤ 1000	I = 0.1CV + 40	I = 0.03CV + 15	> 1000	I = 0.04CV + 100	I = 0.02CV + 25
	C · V \ Time	After 1 minute	After 5 minutes								
	≤ 1000	I = 0.1CV + 40	I = 0.03CV + 15								
> 1000	I = 0.04CV + 100	I = 0.02CV + 25									
Where, I:Max. Leakage current(μA) C:Nominal capacitance(μF) V:Rated voltage(V _{DC}) (at 20°C)											
Dissipation Factor (Tanδ)	Rated Voltage(V _{DC})	160~250 400~450									
	Tanδ(Max.)	0.20 0.24									
(at 20°C, 120Hz)											
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V _{DC})	160~250 400 450									
	Z(-25°C)/Z(+20°C)	3 5 6									
	Z(-40°C)/Z(+20°C)	6 6 -									
(at 120Hz)											
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 105°C for 2,000 hours.										
	Capacitance change	≤ ±20% of the initial 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									
Others	Satisfied characteristics KS C IEC 60384-4										

DIMENSIONS OF NZE Series

Unit(mm)





MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF NZE Series

V _{dc}	160		200		250	
Items μF	∅ D×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)	∅ D×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)	∅ D×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)
22	10×20	192				
33	10×20	236	10×20	236	10×25	258
47	10×25	307	10×25	307	12.5×20	312
68	12.5×20	375	12.5×25	375	12.5×30	444
82	12.5×25	449	12.5×25	449	16×25	496
100	12.5×30	535	12.5×30	535	16×25	548
120	16×20	559	16×25	600	16×25	600
150	16×25	671	16×25	671	16×31.5	724
180	16×25	735	16×31.5	793	16×35.5	810
					18×31.5	819
220	16×31.5	876	16×31.5	876	16×40	924
					18×35.5	936
270	16×35.5	992	16×35.5	992	18×40	1,053
			18×31.5	1,004		
330	18×31.5	1,110	16×40	1,132		
			18×35.5	1,146		
390	18×35.5	1,246	18×40	1,266		

V _{dc}	350		400		450	
Items μF	∅ D×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)	∅ D×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)	∅ D×L(mm)	Rated ripple current (mA _{rms} /105°C, 120Hz)
8.2					10×16	102
10	10×16	116	10×16	116	10×20	122
15	10×20	154	10×20	154	12.5×20	163
22	10×25	207	10×25	207	12.5×25	219
33	12.5×25	276	12.5×25	276	16×25	289
47	16×25	364	16×25	364	16×25	353
56	16×25	397	16×25	397	16×31.5	415
68	16×31.5	472	16×31.5	472	16×35.5	467
	18×25	456				
82	16×35.5	529	16×35.5	529	16×40	530
	18×31.5	536	18×31.5	536	18×31.5	520
100	18×31.5	591	16×40	603	18×35.5	593
			18×35.5	611		
120	18×35.5	669	18×40	680	18×40	659

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF)	Freq.(Hz)	120	1k	10k	100k
8.2 ~ 100		1.00	1.25	1.50	1.75
120 ~ 390		1.00	1.15	1.30	1.40