

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS



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.

NFD (KMF)

Downsized

NZE



SPECIFICATIONS

Item	Characteristics										
Rated Voltage Range	160 ~ 400 V _{DC}	420 ~ 500 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})	160~250 350~500									
	Tanδ(Max.)	0.20 0.24									
(at 20°C, 120Hz)											
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V _{DC})	160~250 350~400 420~500									
	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 with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage)for 2,000 hours at 105°C.										
	Capacitance change	≤ ±20% 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	≤ 500% of the initial specified value									
Others	Satisfied characteristics KS C IEC 60384-4										

DIMENSIONS OF NZE Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK

	6.3	8	10	12.5	16	18	20	22	25.4
øD	6.3	8	10	12.5	16	18	20	22	25.4
ød	0.5	0.6	0.6	0.6	0.8	0.8	0.8	1.0	1.0
F	2.5	3.5	5.0	5.0	7.5	7.5	7.5	10.0	10.0
øD'	øD + 0.5 max.								
L'	L + 1.5max.		L + 2.0 max.						

NZE Series



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RATINGS OF NZE Series

V _{dc}	Capacitance (μF)	∅ D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 120Hz)
160	22	10 × 20	211
	33	10 × 20	260
	47	10 × 25	338
	68	12.5 × 20	413
	82	12.5 × 25	494
	100	12.5 × 30	589
	120	16 × 20	615
	150	12.5 × 35	710
		16 × 25	738
	180	16 × 25	809
	220	16 × 31.5	964
	270	16 × 35.5	1091
	330	18 × 31.5	1221
		22 × 25	1230
	390	18 × 35.5	1371
		22 × 30	1410
	470	25.4 × 30	1660
	560	22 × 35	1780
		22 × 40	1870
	680	22 × 45	2150
25.4 × 35		2100	
820	22 × 50	2450	
	25.4 × 40	2420	
1000	25.4 × 50	2880	
200	3.3	6.3 × 11	45
	4.7	8 × 11.5	64
	6.8	8 × 11.5	77
	10	8 × 11.5	94
	22	8 × 20	160
	33	10 × 20	260
	47	10 × 25	338
	68	12.5 × 25	413
	82	12.5 × 25	494
	100	12.5 × 30	589
	120	16 × 25	660
	150	16 × 25	738
	180	16 × 31.5	872
	220	16 × 31.5	964
		22 × 25	1030
	270	16 × 35.5	1091
		18 × 31.5	1104
	330	16 × 40	1245
		18 × 35.5	1261
		22 × 30	1290
		25.4 × 30	1280
	390	18 × 40	1393
		22 × 35	1370
	470	22 × 40	1580
		25.4 × 35	1610
	560	22 × 45	1790
		22 × 50	1860
		25.4 × 40	1840
	820	25.4 × 50	2400

V _{dc}	Capacitance (μF)	∅ D × L (mm)	Rated Ripple Current (mA _{rms} /105°C, 120Hz)
250	4.7	8 × 11.5	72
	6.8	8 × 11.5	86
	10	8 × 15	108
	22	10 × 20	211
	33	10 × 25	284
	47	12.5 × 20	343
	68	12.5 × 30	488
	82	16 × 25	546
	100	16 × 25	603
	120	16 × 25	660
	150	16 × 31.5	796
	180	16 × 35.5	891
		18 × 31.5	901
	220	22 × 25	830
		16 × 40	1016
	270	18 × 35.5	1030
		22 × 30	1050
		18 × 40	1158
	330	22 × 35	1140
		25.4 × 30	1160
18 × 45		1267	
390	22 × 40	1320	
	25.4 × 35	1350	
470	22 × 45	1500	
	25.4 × 40	1530	
560	25.4 × 50	1990	
350	10	10 × 16	118
	15	10 × 20	169
	22	10 × 25	228
	33	12.5 × 25	304
	39	10 × 40	374
	47	16 × 25	400
	56	16 × 25	437
	68	16 × 31.5	510
		18 × 25	502
	82	16 × 35.5	582
		18 × 31.5	590
	100	18 × 31.5	632
		22 × 25	630
	120	18 × 35.5	716
		22 × 30	730
	150	25.4 × 30	880
	180	22 × 35	950
	200	22 × 40	1050
		25.4 × 35	1070
	220	22 × 45	1150
270	22 × 50	1320	
	25.4 × 40	1300	
330	25.4 × 50	1560	

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz)	120	1K	10K	50K	100K
Factor	1.00	1.25	1.50	1.60	1.75

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V _{dc}	Capacitance (μF)	∅D×L(mm)	Rated Ripple Current (mA _{rms} /105°C, 120Hz)
400	4.7	6.3 × 15	55
	6.8	8 × 11	101
		8 × 15	102
	8.2	8 × 15	105
		8 × 20	110
	10	8 × 20	115
		10 × 16	118
	15	10 × 20	169
	22	10 × 25	228
	33	12.5 × 25	304
	39	12.5 × 30	355
	47	16 × 25	400
	56	16 × 25	437
	68	16 × 31.5	510
	82	16 × 35.5	582
		18 × 31.5	590
		22 × 25	590
	100	16 × 40	645
		18 × 35.5	786
	120	18 × 40	801
		22 × 30	790
	150	18 × 40	872
		22 × 35	900
25.4 × 30		920	
180	22 × 40	1040	
	25.4 × 35	1060	
200	22 × 45	1140	
220	22 × 50	1250	
	25.4 × 40	1110	
270	25.4 × 50	1400	
330	25.4 × 50	1450	
420	10	10 × 20	129
	15	12.5 × 16	161
	22	12.5 × 20	207
	33	16 × 20	265
	47	16 × 25	374
	56	16 × 31.5	440
	68	18 × 25	492
		18 × 31.5	520
	82	18 × 31.5	640
		22 × 25	550
	100	16 × 45	750
		18 × 35.5	750
		22 × 30	650
	120	16 × 45	780
		18 × 40	819
		22 × 35	750
		25.4 × 30	760
	150	18 × 45	840
20 × 40		845	
22 × 40		880	
25.4 × 35		890	
180	22 × 45	1000	
200	25.4 × 40	1080	
220	22 × 50	1150	
270	25.4 × 50	1360	

V _{dc}	Capacitance (μF)	∅D×L(mm)	Rated Ripple Current (mA _{rms} /105°C, 120Hz)
450	4.7	8 × 20	80
	8.2	10 × 16	108
	10	10 × 20	129
	15	12.5 × 20	173
	22	12.5 × 25	232
	33	12.5 × 30	292
		16 × 25	306
	39	10 × 45	330
	47	16 × 25	374
	53	10 × 50	424
	56	16 × 31.5	440
	68	16 × 35.5	514
		18 × 31.5	520
		22 × 25	500
	82	12.5 × 50	670
		16 × 40	640
		18 × 31.5	640
	100	12.5 × 60	790
		16 × 45	750
		18 × 35.5	750
		22 × 30	740
	120	16 × 50	819
		18 × 40	819
22 × 35		750	
25.4 × 30		760	
150	18 × 45	840	
	20 × 40	845	
	22 × 40	880	
	25.4 × 35	890	
180	22 × 45	1000	
	25.4 × 40	1030	
200	22 × 50	1100	
220	25.4 × 50	1230	
500	22	12.5 × 30	238
	33	12.5 × 45	327
	39	12.5 × 50	376
	47	16 × 35.5	385
		18 × 31.5	389
	56	12.5 × 60	473
		16 × 40	452
		22 × 25	450
	60	12.5 × 60	494
	68	16 × 45	567
		18 × 35.5	546
		22 × 30	530
	82	16 × 50	599
		18 × 40	588
		25.4 × 30	620
		18 × 45	700
	100	20 × 40	700
		22 × 35	680
22 × 40		710	
18 × 50		800	
120	22 × 45	900	
	25.4 × 35	800	
	25.4 × 40	830	
150	22 × 50	950	
180	25.4 × 50	1100	

NZE Series

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