

NFC Series

• 105°C 2,000~5,000Hrs assured.

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

NZE

NFC

Long Life

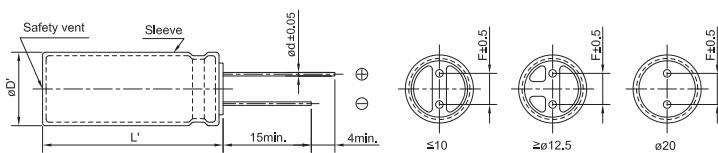
**SPECIFICATIONS**

Item	Characteristics		
Rated Voltage Range	160 ~ 400 V _{DC}	420 ~ 500 V _{DC}	
Operating Temperature Range	-40 ~ + 105°C	-25 ~ + 105°C	
Capacitance Tolerance	$\pm 20\%(\text{M})$ (at 20°C, 120Hz)		
Leakage Current	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
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V _{DC})	160~250	350~400
	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	3	5
	$Z(-40^\circ\text{C})/Z(+20^\circ\text{C})$	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 5,000 hours at 105°C. (where, 2,000 hours for Ø6.3)		
Capacitance change $\leq \pm 20\%$ of the initial value Tanδ $\leq 200\%$ 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 $\leq \pm 20\%$ of the initial value Tanδ $\leq 200\%$ of the initial specified value Leakage current $\leq 500\%$ of the initial specified value		
Others	Satisfied characteristics KS C IEC 60384-4		

DIMENSIONS OF NFC Series

Unit(mm)

Marking : DARK BROWN SLEEVE, SILVER INK								
ØD	6.3	8	10	12.5	16	18	20	22
Ød	0.5	0.6	0.6	0.6	0.8	0.8	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5	7.5	10.0
ØD'	$\phi D + 0.5 \text{ max.}$							
L'	$L + 1.5 \text{ max.}$		$L + 2.0 \text{ max.}$					
※ Ø8 x 50L, L' \leq L+2.0								



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※ Ø8 x 50L, L' \leq L+2.0



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF NFC Series

V _{dc}	160		200	
Items μF	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)
3.3			6.3 × 11	36
10			8 × 11.5	75
22	8 × 20	135	8 × 20	135
	10 × 20	192	10 × 20	192
33	10 × 20	236	12.5 × 20	262
47	12.5 × 20	312	12.5 × 20	312
68	10 × 20	380	12.5 × 25	409
	12.5 × 25	409	8 × 50	320
82	8 × 50	360	16 × 20	462
100	16 × 25	548	16 × 25	548
150	16 × 25	701	16 × 25	701
220	16 × 31.5	876	18 × 31.5	906
330	18 × 31.5	1,110		

V _{dc}	250		350	
Items μF	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)
6.8	8 × 11.5	70	8 × 15	65
10	8 × 20	95	8 × 20	90
	10 × 20	130	10 × 20	126
22	10 × 20	193	12.5 × 20	207
	12.5 × 20	214		
33	12.5 × 25	285	8 × 50	245
			16 × 20	284
47	8 × 50	250	16 × 25	364
	12.5 × 25	340		
68	16 × 25	452	16 × 31.5	472
100	16 × 31.5	591	18 × 31.5	591
150	18 × 31.5	748	18 × 40	760
220	18 × 35.5	936	22 × 45	970
330	20 × 40	1,196		

V _{dc}	400		420	
Items μF	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)
1	6.3 × 11	19		
3.3	8 × 11.5	42		
6.8	8 × 15	66		
8.2	8 × 20	80		
10	10 × 16	85		
22	12.5 × 25	225		
27	8 × 50	240		
33	16 × 20	284		
47	16 × 25	364		
68	16 × 31.5	472	18 × 31.5	500
82	18 × 31.5	536	18 × 31.5	560
100	18 × 35.5	611	18 × 35.5	720
120	18 × 40	680	18 × 40	740
150	18 × 40	760	18 × 45	753
180	20 × 40	855		
220	22 × 45	996		

RATINGS OF NFC Series

V _{dc}	450		500	
Items μF	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)	Ø D × L(mm)	Rated Ripple Current (mArms/105°C,120Hz)
1	6.3 × 11	12		
1.5	8 × 11.5	23		
2.2	8 × 15	38		
3.3	8 × 15	42		
4.7	8 × 20	62		
6.8	10 × 20	100	10 × 20	100
8.2	10 × 25	121		
10	12.5 × 20	135	12.5 × 20	135
15			12.5 × 25	182
22	8 × 50	230	12.5 × 30	210
27	16 × 25	267	10 × 50	253
33	16 × 31.5	319	18 × 25	308
			16 × 31.5	319
39			12.5 × 50	358
40			12.5 × 50	360
47	10 × 50	334	18 × 31.5	393
	18 × 25	368		
56			12.5 × 60	440
60			12.5 × 60	455
68	12.5 × 42.5	476	18 × 35.5	489
	18 × 31.5	500		
82	12.5 × 50	473	18 × 40	594
	18 × 31.5	594		
100	12.5 × 60	630	18 × 45	620
	18 × 35.5	720	20 × 40	618
120	18 × 40	740	22 × 45	702
150	18 × 45	753	22 × 50	827
	20 × 40	757		
180	22 × 50	910		

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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