NFA Series

• 105℃ 7,000~10,000Hrs assured.

- Non-solvent proof.
- High Ripple, Long Life.
- For ballasts stabilizer.
- RoHS compliant.
- Halogen-free capacitors are also available.

NFC → NFA

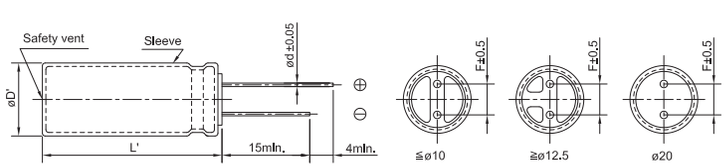
Long Life

SPECIFICATIONS

Item	Characteristics	
Rated Voltage Range	160~400 V_{DC}	420~500 V_{DC}
Operating Temperature Range	-40~+105℃	-25~+105℃
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)	
Leakage Current	C·V \ Time: ≦ 1000 → I=0.1CV+40 (After 1 minute), I=0.03CV+15 (After 5 minutes); 〉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℃)	
Dissipation Factor(Tanδ)	Rated Voltage(V_{DC}): 160~250 / 350~500 Tanδ(Max.): 0.20 / 0.24 (at 20℃, 120Hz)	
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V_{DC}): 160~250 / 350~400 / 420~500 Z(-25℃)/Z(20℃): 3 / 5 / 6 Z(-40℃)/Z(20℃): 6 / 6 / - (at 120Hz)	
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 10,000 hours at 105℃. (where, 7,000 hours for ø8, 8,000 hours for ø10) 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℃ 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 ≦ ±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 NFA Series

Unit(mm)



Marking : DARK BROWN SLEEVE, SILVER INK

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

RATINGS OF NFA Series

WV	160		200	
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)
22	10×20	192	10×20	192
33	10×20	236	10×20	236
			12.5×20	262
47	12.5×20	312	12.5×20	312
68	12.5×25	409	10×33	409
			12.5×25	409
100	16×25	548	16×25	548
150	16×31.5	724	16×31.5	701
220	16×31.5	876	18×31.5	906
330	16×35.5	1,110		

WV	250		350	
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)
10	10×20	130	10×20	126
22	12.5×20	214	12.5×20	207
33	12.5×25	285	16×20	284
47	12.5×25	340	16×25	364
56	10×33	350		
68	16×25	452	16×31.5	472
100	16×31.5	591	18×31.5	591
150	18×25	700	18×40	760
220	18×31.5	850	22×45	970
330	20×40	1,196		

WV	400		420	
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)
2.2	8×11.5	27	8×11.5	25
3.3	8×11.5	33	8×11.5	31
4.7	8×11.5	39	8×11.5	37
6.8	8×15	63	8×20	76
8.2	8×20	75	10×16	87
10	10×20	126	10×20	116
15	10×20	154	10×25	155
22	12.5×25	225	12.5×20	191
33	16×20	284	16×20	262
47	16×25	364	16×25	335
68	16×31.5	472	18×25	435
82	18×31.5	536	16×31.5	507
100	18×35.5	611	18×31.5	580
120	18×40	680	18×40	659
150	18×40	760	18×45	757
180	20×40	855		
220	22×45	996		

WVDC	450		500	
Items / μF	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)	ø D×L(mm)	Rated Ripple Current (mArms/105℃,120Hz)
2.2	8×15	44		
3.3	10×16	63	10×12.5	52
4.7	10×16	74	10×12.5	62
6.8	10×20	96	10×16	83
8.2	10×20	106	10×20	98
10	10×20	108	12.5×20	120
	12.5×20	114		
22	16×25	241	16×25	228
33	12.5×30	315	18×25	260
	16×31.5	319		
47	18×25	368	18×31.5	393
56	16×31.5	410		
68	18×25	435	16×45	625
	18×31.5	473	18×35.5	550
82	18×35.5	537		
100	18×40	602		
120	18×40	659		
150	20×40	757		
180	22×45	892		
220				

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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