

NFK Series

• 105°C 5,000Hrs assured.

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

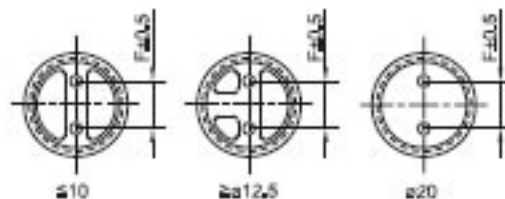
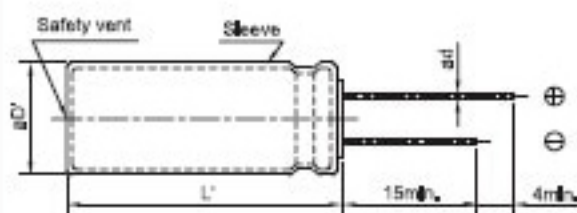


SPECIFICATIONS

Item	Characteristics															
Rated Voltage Range	160 ~ 400 V _{DC}	450 ~ 500 V _{DC}														
Operating Temperature Range	-40 ~ +105°C	-25 ~ +105°C														
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)															
Leakage Current	<table><tr><td> C · V Time </td><td>After 1 minute</td><td>After 5 minutes</td></tr><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></table> Where, I:Max. Leakage current(μA) C:Nominal capacitance (μF) V:Rated voltage (V_{DC}) (at 20°C)			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														
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Dissipation Factor (Tanδ)	<table><tr><td>Rated Voltage(V_{DC})</td><td>160~250</td><td colspan="2">350~500</td></tr><tr><td>Tanδ(Max.)</td><td>0.20</td><td colspan="2">0.24</td></tr></table> (at 20°C, 120Hz)			Rated Voltage(V _{DC})	160~250	350~500		Tanδ(Max.)	0.20	0.24						
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Temperature Characteristics (Max. Impedance ratio)	<table><tr><td>Rated Voltage(V_{DC})</td><td>160~250</td><td>350~400</td><td>450~500</td></tr><tr><td>Z(- 25°C)/Z(+ 20°C)</td><td>3</td><td>5</td><td>6</td></tr><tr><td>Z(- 40°C)/Z(+ 20°C)</td><td>6</td><td>6</td><td>—</td></tr></table> (at 120Hz)				Rated Voltage(V _{DC})	160~250	350~400	450~500	Z(- 25°C)/Z(+ 20°C)	3	5	6	Z(- 40°C)/Z(+ 20°C)	6	6	—
Rated Voltage(V _{DC})	160~250	350~400	450~500													
Z(- 25°C)/Z(+ 20°C)	3	5	6													
Z(- 40°C)/Z(+ 20°C)	6	6	—													
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 for 5,000 hours at 105°C. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value															

DIMENSIONS OF NFK Series

Unit(mm)



Marking : DARK BROWN SLEEVE, SILVER INK

φD	8	10	12.5	16	18	20	22
φd	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
φD'	φD + 0.5 max.						
L'	L + 1.5 max.		L + 2.0 max.				