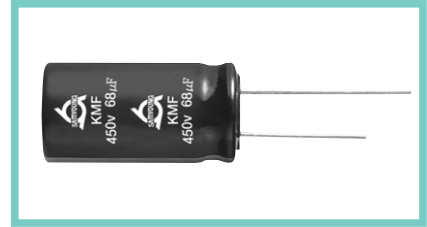
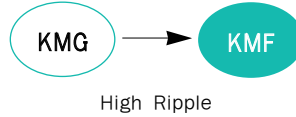


KMF(NFD) Series

• 105°C 2,000Hrs assured.

- Non-solvent proof.
- High ripple.
- For SMPS, IP-Board, Adaptor
- RoHS compliant.



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)	<table border="1"> <thead> <tr> <th>Rated Voltage(V_{DC})</th> <th>160~250</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td>Tanδ(Max.)</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table>		Rated Voltage(V _{DC})	160~250	400~450	Tanδ(Max.)	0.20	0.24							
	Rated Voltage(V _{DC})	160~250	400~450												
Tanδ(Max.)	0.20	0.24													
(at 20°C, 120Hz)															
Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <thead> <tr> <th>Rated Voltage(V_{DC})</th> <th>160~250</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <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> </tbody> </table>			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	—
	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	<p>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.</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>														
Shelf Life	<p>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 measurement.</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ 500% of the initial specified value</p>														
Others	Satisfied characteristics W of KS C 6421.														

DIMENSIONS OF KMF Series

Unit(mm)

Marking: DARK BROWN SLEEVE, SILVER INK

φ D	10	12.5	16	18
φ d	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF KMF Series

V _{dc}		160(2C)			200(2D)		
Items μF	∅ D×L(mm)	Impedance (∅ max./20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	∅ D×L(mm)	Impedance (∅ max./20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	
							22
33	10×20	1.3	565	12.5×20	0.91	590	
47	12.5×20	0.91	725	12.5×20	0.91	780	
68	12.5×25	0.63	950	12.5×25	0.63	950	
100	16×25	0.27	1,280	16×25	0.27	1,280	
150	16×31.5	0.22	1,300	16×25	0.27	1,300	
220	16×31.5	0.22	1,300	18×31.5	0.22	1,700	
330	18×31.5	0.22	1,700				

V _{dc}		250(2E)			350(2V)		
Items μF	∅ D×L(mm)	Impedance (∅ max./20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	∅ D×L(mm)	Impedance (∅ max./20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	
							10
22	12.5×20	2.3	480	12.5×20	2.1	270	
33	12.5×25	1.7	630	16×20	0.91	600	
47	12.5×25	1.7	630	16×25	0.73	700	
68	16×25	0.78	1,000	16×31.5	0.49	1,100	
100	16×31.5	0.63	1,400	18×31.5	0.40	1,170	
150	18×31.5	0.42	1,450				
220	18×40	0.35	1,485				

V _{dc}		400(2G)			450(2W)		
Items μF	∅ D×L(mm)	Impedance (∅ max./20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	∅ D×L(mm)	Impedance (∅ max./20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	
							3.3
4.7				12.5×20	3.6	200	
10	10×20	2.9	180	12.5×25	2.5	315	
22	12.5×25	1.3	300	16×25	1.7	570	
33	16×20	0.91	600	16×31.5	1.1	620	
47	16×25	0.73	700	18×31.5	0.93	900	
68	16×31.5	0.49	1,100	18×35.5	0.71	980	
100	18×40	0.34	1,250				

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

∅ D(mm)	Freq.(Hz)	120	1k	10k	100k
∅ 10		0.25	0.61	0.88	1.00
∅ 12.5 ~ ∅ 18		0.35	0.66	0.89	1.00