

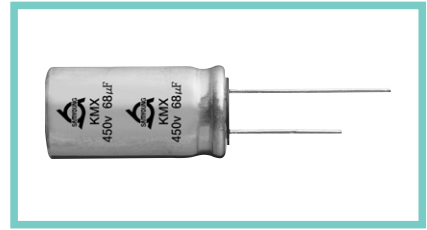
## KMX(NFE) Series

• 105°C 5,000Hrs assured.

- Non-solvent proof.
- High ripple.
- For ballasts stabilizer.
- RoHS compliant.



Long life



### SPECIFICATIONS

Item	Characteristics										
Rated Voltage Range	160~400 V <sub>DC</sub>	450 V <sub>DC</sub>									
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>&gt; 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 <sub>DC</sub> ) (at 20°C)											
Dissipation Factor (Tanδ)	Rated Voltage(V <sub>DC</sub> )	160~250      350~450									
	Tanδ(Max.)	0.20      0.24									
(at 20°C, 120Hz)											
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V <sub>DC</sub> )	160~250      350~400      450									
	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 is applied at 105°C for 5,000 hours.										
	Capacitance change	≤ ±20% of the initial 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 measurement.										
	Capacitance change	≤ ±20% of the initial value									
Others	Satisfied characteristics W of KS C 6421.										

### DIMENSIONS OF KMX Series

Unit(mm)

Marking: GOLD SLEEVE, BLACK INK

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



# MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

## RATINGS OF KMX Series

V <sub>dc</sub> μF	160(2C)			200(2D)		
	Items ∅ D×L(mm)	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Items ∅ D×L(mm)	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)
22	10×20	1.3	440	10×20	1.5	440
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 <sub>dc</sub> μF	250(2E)			350(2V)		
	Items ∅ D×L(mm)	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Items ∅ D×L(mm)	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)
10	10×20	3.5	300	10×20	2.9	180
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 <sub>dc</sub> μF	400(2G)			450(2W)		
	Items ∅ D×L(mm)	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Items ∅ D×L(mm)	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)
3.3				10×20	6.5	150
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

Cap.(μF)	Freq.(Hz)	120	1k	10k	100k
3.3 ~ 100		0.40	0.70	0.90	1.00
150 ~ 330		0.44	0.74	0.77	1.00