

## FA series Super Long Life 8000HRS

- Load Life :105°C 8000 hours or 130°C 2000 hours
- With high Ripple Current and high temperature130°C
- For Electronic Ballast,Power Supply
- ROHS compliant

### ■SPECIFICATIONS

Item	Performance Characteristics							
Operating Temperature Range	-40°C~130°C(160V~400VDC) -25°C~130°C(450VDC)							
Rated Voltage Range	160~450V							
Capacitance Range	1~150uF							
Capacitance Tolerance	±20%,120Hz,20°C							
Leakage Current (MAX)	V=160~400	V=450					After 1 minute application of rated voltage I=Leakage Current(uA) C=Nominal Capacitance(uF) V=Rated Voltage(V)	
	I=0.02CV+10uA	I=0.03CV+10uA						
Dissipation Factor (tan δ)	For capacitance of more than 1000uF, added 0.02 for every increase of 1000uF,measurement							
	Rated voltage(V)	160	200	250	350	400	450	MAX (20°C120Hz)
Low Temperature Stability Impedance Ratio	Tan δ							MAX (120Hz)
	Rated voltage(V)	160	200	250	350	400~420	450	
	Z(-25°C) / Z (+20°C)	3	3	3	4	4	5	
	Z(-40°C) / Z (+20°C)	6	6	6	6	6	6	
Load Life	After application of the rated DC voltage with rated ripple current at 130°C 2000 hours or application of the rated DC voltage with rated ripple current at 105°C 8000 hours,the capacitors shall meet the requirement below							
	Leakage Current	The initial specified value						
	Capacitance Change	±20% of initial value						
Shelf Life	After leaving capacitors under no load at 105°C for 1000hours and applying voltage according to JIS C-5102 4-3,they meet the specified value for load life characteristics listed above.							
	Under the condition in of 145°C,applying the capacitor with the rated DC voltage under the rated ripple current for 500 hours,then cooling the capacitor,the performance of capacitors should meet the following requirements							
Accelerated Durability Test	Leakage Current	The initial specified value						
	Capacitance Change	±20% of initial value						
	Dissipation Factor	200% of the initial specified value						
Standard	According to JIS C-5141							

### ■MULTIPLIER FOR RIPPLE CURRENT

#### Frequency coefficient

Frequency(Hz)	120	1k	10k	100k≤
Coefficient	0.50	0.80	0.90	1.00

#### Temperature coefficient

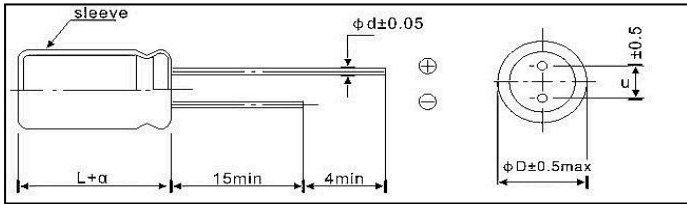
Temperature	65°C	75°C	85°C	105°C
Coefficient	1.78	1.70	1.40	1.00

## FA

series

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### ■DIMENSIONS(mm)



ΦD	8	10	12	13	16	18
Φd	0.5	0.6		0.8		
F	3.5	5.0		7.5		
α	L≤16 : α=1.5 L≥16 : α=2.0					

### ■STANDARD SIZE PERMISSIBLE RIPPLE CURRENT

Size ΦD×L(mm)Ripple Current(mA 105°C,100KHz)r.m.s

W. V	160		200		250		350		400		450	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
1.0							8×12	65	8×12 10×13	73 77	8×12	81
1.2							8×12	68	8×12 10×13	80 86	8×14 10×13	82 84
1.5									8×14 8×16 10×16	59 86 90	10×16	88
1.8					8×12	65	8×12	76	8×12 8×14 8×16 10×16	60 66 90 94	8×16 10×16	90 92
2.2					8×12	81	8×12	85	8×12 8×14 8×16 10×13 10×16	75 85 95 90 98	8×16 10×16	94 96
2.7									8×16	96		
2.8			8×12	81	10×13 10×16	85 90	8×16 10×16	90 98	8×16 10×16	98 102	10×16	100
3.3	8×12	86	8×12	94	10×16	100	8×16 10×16	100 110	10×16 10×20	110 120	10×16 10×20	105 110
4.7	8×12	95	8×12	100	10×16 10×20	102 118	8×16 10×16	120 140	10×16 10×20	120 133	10×20	120
5.6	8×12	100	8×12	105	10×16 10×20	108 120	10×16	150	10×20 13×21	138 145	10×20 13×21	130 140
6.8	8×12	106	8×16 10×16	113 116	10×16 10×20	112 125	10×16 10×20	200 230	10×16 10×20 13×21	155 220 250	10×20 13×21	200 230
8.2	10×16	115	10×16	120	10×16	125	10×20 13×21	240 250	10×16 10×20 13×21	180 245 255	13×21	240
10	10×16	240	8×20 10×16 10×20	150 160 245	8×16 10×16 10×20	175 200 260	10×20	280	10×20 13×21	210 300	13×21	260
15	10×20	400	8×16 10×20	165 405	10×20 13×17 13×21	410 410 420	10×20 13×21	390 440	13×25	450	13×25	400
22	10×20	480	10×20	485	10×20 13×21	450 600	13×21 13×25	600 610	16×25	650	13×21 16×21 16×25 18×21	530 550 600 620
33	13×21	485	13×21	488	13×21 13×25	500 600	16×22 16×25	535 620	16×25 18×25 16×32	660 680 670	18×25 18×27	600 640
47	13×21	620	13×25	625	16×25	720	18×25 16×32	725	18×27	850	18×30	750
68			16×21	650	16×21	1000	16×36	1150	18×30	1320	18×25 18×32	900 840
100											22×32	1100
150											22×41	1350