



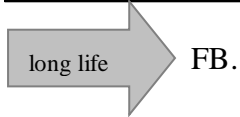
Miniature Aluminum Electrolytic Capacitors

Series

CFB

FEATURES

- 1、 Specially designed for electronic ballast and energy-save lamp FA
- 2、 Load life 8000-10000 hrs at 105°C.
- 3、 Safety vent construction design.
- 4、 ROHS Compliant

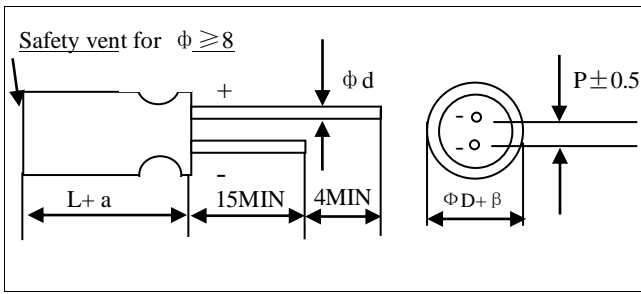


SPECIFICATIONS

Item	Performance Characteristics														
Operating Temperature Range	-25 to +105°C														
Rated Working voltage Range	160 to 450V DC														
Nominal Capacitance Range	1 to 330(uF)														
Capacitance Tolerance	±20% (120Hz, +20°C)														
Leakage Current	$I \leq 0.03CV + 100(\mu A)$ after 2 minutes with rated working voltage applied at +20°C														
Dissipation Factor $\tan \delta$ (120Hz+20°C)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Working voltage(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td style="text-align: center;">Tan δ (max.)</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.12</td> <td>0.12</td> <td>0.12</td> </tr> </table>	Working voltage(V)	160	200	250	350	400	450	Tan δ (max.)	0.10	0.10	0.10	0.12	0.12	0.12
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Multiplier for Ripple Current vs. Frequency	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Frequency(Hz)</td> <td>120</td> <td>1K</td> <td>10K</td> <td>10K≤</td> </tr> <tr> <td style="text-align: center;">Multiplier</td> <td>1.0</td> <td>1.5</td> <td>1.70</td> <td>1.90</td> </tr> </table>	Frequency(Hz)	120	1K	10K	10K≤	Multiplier	1.0	1.5	1.70	1.90				
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Multiplier for Ripple Current vs. Temperature	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Temperature°C</td> <td>45</td> <td>60</td> <td>70</td> <td>85</td> <td>105</td> </tr> <tr> <td style="text-align: center;">Multiplier</td> <td>2.10</td> <td>1.90</td> <td>1.40</td> <td>1.25</td> <td>1.00</td> </tr> </table>	Temperature°C	45	60	70	85	105	Multiplier	2.10	1.90	1.40	1.25	1.00		
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Low Temperature Characteristics	Impedance ratio max. at 120Hz <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Working voltage(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td style="text-align: center;">Z-25°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	Working voltage(V)	160	200	250	350	400	450	Z-25°C/Z+20°C	3	3	3	6	6	6
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High Temperature Loading	Test conditions Duration : As right Ambient temperature : +105°C Applied voltage : Rated DC working voltage Post test requirements at +20°C Leakage current : ≤ Initial specified value Capacitance change : ≤ ±20% of initial measured value tan δ : ≤ 200% of initial specified value <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">ϕ D</td> <td style="text-align: center;">Life(hours)</td> </tr> <tr> <td style="text-align: center;">8 ϕ</td> <td style="text-align: center;">8000</td> </tr> <tr> <td style="text-align: center;">≥10 ϕ</td> <td style="text-align: center;">10000</td> </tr> </table>	ϕ D	Life(hours)	8 ϕ	8000	≥10 ϕ	10000								
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Shelf life	Test conditions Duration : 1000 hours Ambient temperature : +105°C Applied voltage : (None) After test requirement at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes														
Others	JIS C-5141 JIS C-5102														

CASE SIZE TABLE

Unit:mm



D ϕ	8	8	10	13	16	18
P	3.5	3.5	5.0	5.0	7.5	7.5
d ϕ (± 0.05)	0.5	0.6		0.8		

aMAX	(L<20)1.5
	(L \geq 20)2.0

β MAX	(D<20)0.5
	(D \geq 20)1.0

DIMENSIONS

D \times L(mm)

WV(SV)	Cap.(μ F) Code	D \times L(mm)											
		160(200) 2C		200(250) 2D		250(300) 2E		350(400) 2V		400(450) 2G		450(500) 2W	
1.0	105							8 \times 12	82	10 \times 12.5	88	10 \times 12.5	92
2.2	225							10 \times 12.5	88	10 \times 12.5	92	10 \times 12.5	96
3.3	335					8 \times 12	82	10 \times 12.5	92	10 \times 17	105	10 \times 17	108
4.7	475					10 \times 12.5	108	10 \times 17	108	10 \times 20	118	10 \times 20	122
6.8	685			10 \times 12.5	108	10 \times 12.5	112	10 \times 17	116	10 \times 20	122	10 \times 20	132
10	106	10 \times 17	128	10 \times 17	126	10 \times 17	142	10 \times 20	152	13 \times 21	175	13 \times 21	185
22	226	10 \times 20	205	10 \times 20	202	13 \times 21	205	13 \times 21	262	13 \times 25	270	16 \times 22	288
33	336	10 \times 20	255	13 \times 21	265	13 \times 21	322	13 \times 25	365	16 \times 26	375	16 \times 26	395
47	476	13 \times 21	305	13 \times 21	392	13 \times 25	395	16 \times 26	432	16 \times 30	468	18 \times 30	480
68	686	13 \times 21	475	16 \times 22	485	16 \times 26	525	18 \times 26	565	18 \times 30	585	18 \times 41	632
100	107	16 \times 22	585	16 \times 26	635	16 \times 30	682	18 \times 36	705	18 \times 41	792	18 \times 45	852
150	157	16 \times 26	692	18 \times 26	842	18 \times 36	865	18 \times 45	965				
220	227	18 \times 30	985	18 \times 36	1055	18 \times 45	1132						
330	337	18 \times 41	1255									Case size	Allowable ripple

Allowable Ripple (mA rms)at 105