



Miniature Aluminum Electrolytic Capacitors

Series

CFA

FEATURES

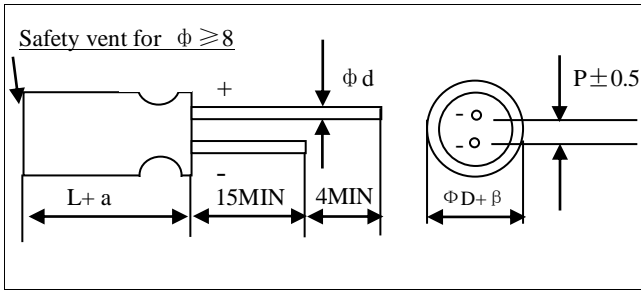
- 1、 Specially designed for electronic ballast and energy-save lamp.
- 2、 Load life 6000-8000 hrs at 105°C.
- 3、 Safety vent construction design.
- 4、 ROHS Compliant

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"> <thead> <tr> <th>Working voltage(V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>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> </tbody> </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"> <thead> <tr> <th>Frequency(Hz)</th> <th>120</th> <th>1K</th> <th>10K</th> <th>10K≤</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>1.0</td> <td>1.5</td> <td>1.70</td> <td>1.90</td> </tr> </tbody> </table>	Frequency(Hz)	120	1K	10K	10K≤	Multiplier	1.0	1.5	1.70	1.90				
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Low Temperature Characteristics	Impedance ratio max. at 120Hz <table border="1"> <thead> <tr> <th>Working voltage(V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>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> </tbody> </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"> <thead> <tr> <th>ϕ D</th> <th>Life(hours)</th> </tr> </thead> <tbody> <tr> <td>8 ϕ</td> <td>6000</td> </tr> <tr> <td>≥10 ϕ</td> <td>8000</td> </tr> </tbody> </table>	ϕ D	Life(hours)	8 ϕ	6000	≥10 ϕ	8000								
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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	160(200)		200(250)		250(300)		350(400)		400(450)		450(500)	
	2C		2D		2E		2V		2G		2W	
1.0 105							8 \times 12	78	8 \times 12	68	8 \times 12	86
2.2 225					8 \times 12	72	8 \times 12	82	8 \times 12	86	10 \times 12.5	92
3.3 335					8 \times 12	78	10 \times 12.5	88	10 \times 12.5	98	10 \times 17	108
4.7 475			8 \times 12	82	10 \times 12.5	102	10 \times 12.5	105	10 \times 17	112	10 \times 17	120
6.8 685			8 \times 12	102	10 \times 12.5	108	10 \times 17	115	10 \times 17	120	10 \times 20	130
10 106	10 \times 12.5	110	10 \times 12.5	118	10 \times 17	135	10 \times 20	145	10 \times 20	165	13 \times 21	180
22 226	10 \times 17	175	10 \times 17	175	10 \times 20	195	13 \times 21	250	13 \times 25	235	16 \times 22	280
33 336	10 \times 20	240	10 \times 20	250	13 \times 21	310	13 \times 25	345	13 \times 29	315	16 \times 26	375
47 476	13 \times 21	290	13 \times 21	375	13 \times 25	375	16 \times 26	415	16 \times 30	450	18 \times 30	460
68 686	13 \times 21	450	13 \times 25	460	16 \times 26	500	18 \times 26	535	18 \times 30	555	18 \times 36	605
100 107	16 \times 22	555	16 \times 26	605	16 \times 30	650	18 \times 36	670	18 \times 41	755	18 \times 45	825
150 157	16 \times 26	660	16 \times 30	830	18 \times 30	780						
220 227	18 \times 30	770	18 \times 30	1010								
330 337	18 \times 36	1095									Case size	Allowable ripple

Allowable Ripple (mA rms)at 105 $^{\circ}$ C 120Hz