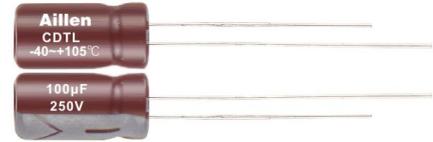


產品特點 Features

Guaranteed operating life of 3000 to 5000 hours at +105°C with rated ripple current applied.
Suitable for Colour TV and high require circuits.
+105°C加額定紋波電流保證壽命3000~5000小時。
適用於彩色電視機及較高要求的電路。



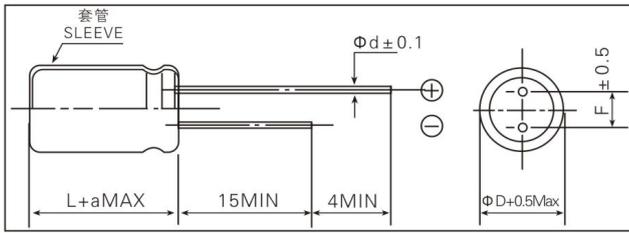
規格書 SPECIFICATION

項目 Item	特性參數 Characteristics																																																											
使用溫度範圍 Operating Temperature Range	-40~+105°C	-25~+105°C																																																										
額定電壓範圍 Rated Working Voltage Range	6.3~100V	160~450V																																																										
容量允許偏差 Capacitance Tolerance	± 20% (M)																																																											
漏電流 Leakage Current	I ≤ 0.01CV or 3 (µA) Whichever is greater after 2 minutes	I ≤ 0.03CV+10 (µA)max after 2 minutes																																																										
損耗角正切值(20°C, 120Hz) Dissipation Factor	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> </tr> <tr> <td>Tan δ</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> <tr> <td>WV</td> <td>300</td> <td>350</td> <td>400</td> <td>450</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tan δ</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												WV	6.3	10	16	25	35	50	63	100	160	200	250	Tan δ	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.09	0.20	0.20	0.20	WV	300	350	400	450								Tan δ	0.24	0.24	0.24	0.24							
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低溫特性 Low Temperature Characteristics	<p>阻抗比 Impedance ratio (120 Hz)</p> <table border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z-40°C/ Z +20°C</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-25°C/ Z +20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Rated Voltage(V)</td> <td>160</td> <td>200</td> <td>220</td> <td>250</td> <td>300</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z-25°C/ Z +20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> <td>4</td> <td>6</td> <td>6</td> </tr> </table>												Rated Voltage(V)	6.3	10	16	25	35	50	63	100	Z-40°C/ Z +20°C	5	4	3	2	2	2	2	2	Z-25°C/ Z +20°C	10	8	6	4	3	3	3	3	Rated Voltage(V)	160	200	220	250	300	350	400	450	Z-25°C/ Z +20°C	3	3	3	4	4	4	6	6			
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Z-25°C/ Z +20°C	3	3	3	4	4	4	6	6																																																				
高溫負荷特性 High Temperature Loading	<p>在105°C的前提下施加額定電壓與額定紋波電流，然後取出恢復常溫後測試 Test temperature: +105°C Test conditions: Rated DC working voltage with rated ripple current Post test requirements at +20°C</p> <table border="1"> <tr> <td rowspan="2">Test time (Load life)</td> <td>(D)</td> <td>D < Φ8</td> <td>Φ8~Φ10</td> <td>D > Φ10</td> </tr> <tr> <td></td> <td>3000H</td> <td>4000H</td> <td>5000H</td> </tr> </table> <table border="1"> <tr> <td>Capacitance Change</td> <td>≤ ± 25% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 200% of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ initial specified value</td> </tr> </table>												Test time (Load life)	(D)	D < Φ8	Φ8~Φ10	D > Φ10		3000H	4000H	5000H	Capacitance Change	≤ ± 25% of initial value	Dissipation Factor	≤ 200% of initial specified value	Leakage Current	≤ initial specified value																																	
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高溫貯存特性 Shelf Life	<p>電容器在+105°C下,存放1000小時,經恢復後: At +105°C no voltage applied after 1000 hours ,the capacitors shall meet the following limits.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>≤ ± 20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>≤ 200% of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ 200% of initial specified value</td> </tr> </table>												Capacitance Change	≤ ± 20% of initial value	Dissipation Factor	≤ 200% of initial specified value	Leakage Current	≤ 200% of initial specified value																																										
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插件鋁電解電容

外型圖 DIMENSIONS

Unit: mm



φD	5.0	6.3	8.0	10.0	13	16.0	18.0
F	2.0	2.5	3.5	5.0		7.5	
φd	0.5			0.6		0.8	
α	1.5			2.0			

紋波電流修正系數 RIPPLE CURRENT MULTIPLIER

頻率系數 Frequency coefficient

coefficient		Frequency (Hz)	60 (50)	120	300	1K	≥10K
6.3~100V	Cap(μF)	0.1~47 μF	0.75	1.00	1.25	1.47	1.80
		68~470 μF	0.80	1.00	1.15	1.35	1.50
		≥560 μF	0.85	1.00	1.05	1.10	1.15
160~450V		0.47~220 μF	0.80	1.00	1.20	1.30	1.50
		≥270 μF	0.90	1.00	1.10	1.13	1.15

一覽表 Standard

Voltage (Code)		6.3		10		16	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
100	107			5 × 11	120	6.3 × 11	160
150	157	5 × 11	150	6.3 × 11	160	8 × 12	230
220	227	6.3 × 11	160	6.3 × 11	220	8 × 12	260
330	337	6.3 × 11	220	8 × 12	280	8 × 12	330
470	477	8 × 12	330	8 × 12	320	10 × 12.5	400
680	687	8 × 12	370	10 × 12.5	500	10 × 16	600
1000	108	10 × 12.5	460	10 × 16	650	10 × 20	800
1500	158	10 × 20	700	10 × 25	850	13 × 20	1000
2200	228	10 × 25	1050	13 × 20	1150	13 × 25	1250
3300	338	13 × 20	1250	13 × 25	1300	16 × 25	1600
4700	478	13 × 30	1550	16 × 25	1650	16 × 30	1750

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size φ D × L (mm)
尺寸 φ D × L (mm)

Voltage (Code)		25		35		50	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
22	226					5 × 11	
33	336			5 × 11	88	6.3 × 11	90
47	476	5 × 11	90	6.3 × 11	130	8 × 12	180
100	107	6.3 × 11	170	8 × 12	240	8 × 12	230
150	157	8 × 12	250	8 × 12	280	10 × 12.5	300
220	227	8 × 12	300	10 × 12.5	370	10 × 16	550
330	337	10 × 12.5	450	10 × 16	450	10 × 25	700
470	477	10 × 16	580	10 × 20	550	13 × 20	820
680	687	10 × 20	750	13 × 20	700	13 × 30	1050
1000	108	13 × 20	920	13 × 25	1150	16 × 25	1600
1500	158	13 × 25	1250	16 × 25	1350	16 × 35	1800
2200	228	16 × 25	1500	16 × 30	1600	18 × 35	2000
2700	278	16 × 25	1620	16 × 35	1750		
3300	338	16 × 30	1900	18 × 35	2150		

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size φ D × L (mm)
尺寸 φ D × L (mm)

一覽表 Standard

Voltage (Code)		63		100	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current
15	156	6.3×11	90	6.3×11	75
22	226	6.3×11	105	8×11	130
33	336	6.3×11	125	10×12.5	170
47	476	8×11	135	10×12.5	210
100	107	10×12.5	270	10×25	380
150	157	10×16	330	13×20	550
220	227	10×25	500	13×30	700
330	337	13×25	750	16×30	900
470	477	13×30	1200	16×35	1140
680	687	16×25	1350	18×35	1600
1000	108	16×35	1600		

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size Φ D x L (mm)
尺寸 Φ D x L (mm)

Voltage (Code)		160		200		250	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1	105						
2.2	225					8×12	40
3.3	335	6.3×11	37	6.3×11	35	8×12	50
4.7	475	8×12	48	8×12	50	10×12.5	80
10	106	10×12.5	66	10×12.5	85	10×20	140
22	226	10×16	115	10×16	120	13×20	195
33	336	10×20	160	10×20	175	13×25	240
47	476	10×20	200	13×20	215	16×35	440
100	107	16×25	450	16×25	400	18×35	500
220	227	16×35	720	16×40	700		

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size Φ D x L (mm)
尺寸 Φ D x L (mm)

Voltage (Code)		350		400		450	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.47	474	6.3×11	10				
1	105	6.3×11	20	8×12	20	8×12	20
2.2	225	8×12	35	8×12	28	10×12.5	30
3.3	335	8×12	42	8×12	38	10×12.5	35
4.7	475	10×12.5	55	10×12.5	50	10×16	46
10	106	10×16	80	10×16	80	13×20	95
22	226	13×20	160	13×25	170	16×25	200
33	336	16×25	220	16×25	240	16×35	260
47	476	16×25	280	16×30	300		

Maximum Allowable Ripple Current (mArms) at 105°C 120Hz
在105°C 120Hz條件下的最大紋波值

Case Size Φ D x L (mm)
尺寸 Φ D x L (mm)

插件鋁電解電容