

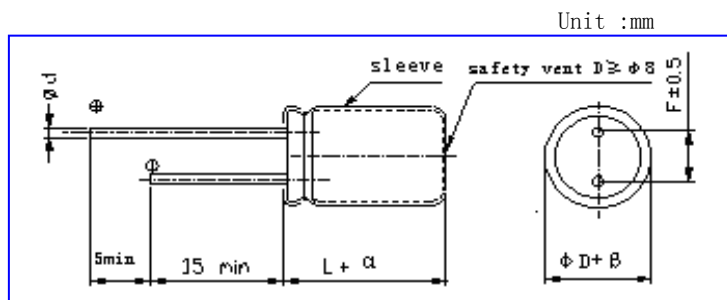
LW 系列 Series

- 耐高纹波，超耐高温，长寿命，125°C 1000 小时~4000 小时
High Ripple Current wide Temperature, extremely Long Life, Life time +125°C 1000 hours~4000 hours
- 专为 LED 驱动电源设计制造
Specially designed for light emitting diode lamp (LED) drive source
- RoHS 指令已对应完毕。
Adapted to the RoHS directive.

主要技术性能 Specifications

项目 Item	特性 Performance Characteristics																									
使用温度范围 Operating temperature range	-40°C ~ +125°C																									
额定电压范围 Rated voltage range	16V~100V	200V ~ 400V																								
标称容量范围 Nominal capacitance range	1μF ~4700μF																									
容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)																									
漏电流 Leakage current (+20°C)	$I \leq 0.01CV$ 或 $3(\mu A)$ 2分钟 取较大者 (at 20°C, after 2 minutes) (whichever is greater)	$I \leq 0.02 CV + 10 \mu A$ (2分钟, 20°C) $0.02CV + 10 \mu A$ (at 20°C, after 2 minutes)																								
	C: 标称容量 Capacitance (μF); V: 额定电压 Rated voltage range (V)																									
损耗角正切值 Dissipation factor (tg δ) (+20°C, 120Hz)	<table border="1"> <tr> <td>U_R (V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tg δ</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> </tr> <tr> <td>U_R (V)</td> <td>100</td> <td>200</td> <td>250</td> <td>400</td> <td></td> </tr> <tr> <td>tg δ</td> <td>0.10</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td></td> </tr> </table> <p>When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.</p>		U _R (V)	16	25	35	50	63	tg δ	0.16	0.14	0.12	0.12	0.10	U _R (V)	100	200	250	400		tg δ	0.10	0.15	0.15	0.20	
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温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> </tr> <tr> <td>Z-40°C / +20°C</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>7</td> <td>7</td> </tr> </table>		U _R (V)	16	25	35	50	63	100	200	250	350	400	Z-40°C / +20°C	4	3	3	3	3	3	6	6	7	7		
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Z-40°C / +20°C	4	3	3	3	3	3	6	6	7	7																
耐久性 Load life	<p>在+125°C 条件下，施加含额定纹波电流的额定电压，持续规定时间，并在+20°C下恢复 16 小时后，电容器应符合下列要求 The following specifications shall be met when the capacitors are restored to +20°C for 16 hours after D.C. bias rated ripple current is applied at +125°C, the peak voltage shall not exceed the voltage.</p> <table border="1"> <tr> <td rowspan="5">Time</td> <td rowspan="5">:</td> <td>U_R (V)</td> <td>16V~100V</td> <td>200V~450V</td> </tr> <tr> <td>φ D</td> <td></td> <td></td> </tr> <tr> <td>φ 6.3</td> <td>1000hours</td> <td>1000hours</td> </tr> <tr> <td>φ 8</td> <td>2000hours</td> <td>2000hours</td> </tr> <tr> <td>φ 10</td> <td>2000hours</td> <td>4000hours</td> </tr> <tr> <td>φ ≥12.5</td> <td>4000hours</td> <td>4000hours</td> </tr> </table> <p>Capacitance change : ±20%初始测量值以内 ±20% of the Initial measured value Leakage current : ≤初始规定值 ≤the Initial specified value Dissipation factor : ≤2 倍初始规定值 ≤2times of the Initial specified value</p>		Time	:	U _R (V)	16V~100V	200V~450V	φ D			φ 6.3	1000hours	1000hours	φ 8	2000hours	2000hours	φ 10	2000hours	4000hours	φ ≥12.5	4000hours	4000hours				
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高温贮存 Shelf life	<p>+125°C 1000 小时贮存后，恢复 16 小时后 After storage for 1000 hours at +125°C and then resumed for 16 hours:</p> <p>Capacitance change : ±20%初始测量值以内 ±20% of the Initial measured value Leakage current : ≤2 倍初始规定值 ≤2 times of the Initial specified value Dissipation factor : ≤2 倍初始规定值 ≤2times of the Initial specified value</p>																									

外形图及尺寸表 Case size table



D	6.3	8	10	12.5	16	18
F	2.5	3.5	5.0		7.5	7.5
d	0.5	0.5、0.6	0.6		0.8	0.8

α 最大	(L < 20) 1.5	β MAX	0.5
	(L ≥ 20) 2.0		

■尺寸 Dimensions

容量 C _e (μ F)	代 码 Code	63V(1J)			100V(2A)			200V(2D)			250V(2E)			400V(2G)		
		Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple
		ϕ D \times L(mm)	Ω MAX	(mA)	ϕ D \times L(mm)	Ω MAX	(mA)	ϕ D \times L(mm)	Ω MAX	(mA)	ϕ D \times L(mm)	Ω MAX	(mA)	ϕ D \times L(mm)	Ω MAX	(mA)
1.0	010	8 \times 11.5	2.5	30	8 \times 11.5	5.0	30	6.3 \times 11	18.5	55	6.3 \times 11	18.5	60	6.3 \times 11	25.0	60
														8 \times 11.5	25.0	60
1.5	1R5	8 \times 11.5	2.5	30	8 \times 11.5	4.8	35	6.3 \times 11	18.5	70	6.3 \times 11	18.5	70	8 \times 11.5	25.0	70
														8 \times 16	25.0	70
1.8	1R8	8 \times 11.5	2.0	35	8 \times 11.5	4.8	40	6.3 \times 11	18.5	75	6.3 \times 11	18.5	75	8 \times 11.5	13.5	77
														8 \times 16	13.5	77
2.2	2R2	8 \times 11.5	1.8	45	8 \times 11.5	4.5	45	6.3 \times 11	15.2	80	6.3 \times 11	15.2	80	8 \times 11.5	10.15	80
														8 \times 16	10.15	80
2.7	2R7	8 \times 11.5	1.8	45	8 \times 11.5	4.2	45	6.3 \times 11	15.2	85	6.3 \times 11	10.15	85	8 \times 16	6.82	90
														8 \times 20	6.82	90
3.3	3R3	8 \times 11.5	1.5	65	8 \times 11.5	4.0	65	6.3 \times 11	10.15	90	6.3 \times 11	10.15	95	8 \times 16	6.82	115
														8 \times 20	6.82	115
4.7	4R7	8 \times 11.5	1.5	100	8 \times 11.5	3.8	100	6.3 \times 11	10.15	100	8 \times 11.5	7.98	115	8 \times 20	5.69	120
								8 \times 11.5	7.98	100				10 \times 16	5.69	120
5.6	5R6	8 \times 11.5	1.5	110	8 \times 11.5	3.8	120	8 \times 11.5	7.98	125	8 \times 11.5	7.98	125	10 \times 16	5.69	140
								8 \times 16	7.98	125	8 \times 16	7.98	125	10 \times 20	5.35	140
6.8	6R8	8 \times 11.5	1.5	135	8 \times 11.5	3.6	140	8 \times 11.5	7.98	155	8 \times 11.5	7.98	165	10 \times 20	5.35	150
								8 \times 16	3.65	175	8 \times 16	3.65	175			
10	100	8 \times 11.5	1.2	155	8 \times 11.5	3.5	170	8 \times 16	3.65	190	8 \times 16	3.65	195			
								8 \times 20	3.65	190	8 \times 20	3.65	245			
15	150	8 \times 11.5	1.0	175	8 \times 11.5	3.0	195	8 \times 16	3.24	225	10 \times 16	3.24	245	□		
								8 \times 20	3.24	225						
22	220	8 \times 11.5	0.9	195	8 \times 11.5	1.8	225	10 \times 16	3.24	245	10 \times 20	3.24	285			
33	330	8 \times 11.5	0.73	200	10 \times 12.5	1.2	265	10 \times 25	1.65	325	12.5 \times 20	1.65	365			
47	470	10 \times 12.5	0.48	310	10 \times 16	0.6	325									
100	101	10 \times 20	0.30	655	12.5 \times 20	0.45	675									
220	221	12.5 \times 20	0.25	825	16 \times 25	0.20	1110									
330	331	12.5 \times 25	0.13	1005	16 \times 30	0.10	1310									
470	471	16 \times 25	0.11	1495	18 \times 30	0.092	1600									
1000	102	16 \times 30	0.08	1860												
1500	152	18 \times 40	0.07	2360												

Size ϕ D \times L(mm)Maximum Allowable Ripple Current (mA rms) at 125 $^{\circ}$ C 100KHzMaximum ESR (Ω) at 20 $^{\circ}$ C 100KHz