

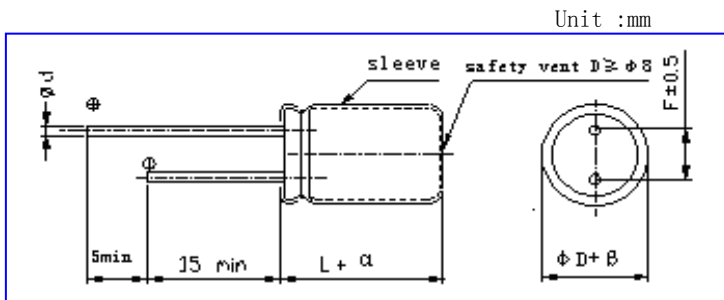
LW 系列 Series

- 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)	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							
When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.												
温度特性 Temperature characteristics (Impedance ratio at 120Hz)	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	
耐久性 Load life	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.											
	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										
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										
高温贮存 Shelf life	+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:											
	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									

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

Size φD×L(mm)

Maximum Allowable Ripple Current (mA rms) at 125°C 100KHz

Maximum ESR (Ω) at 20°C 100KHz