CL series

- 105℃ 2000hours.
- Suitable for lighting and power charger.
- RoHS Compliance.
- 105℃ 2000小時.
- 適用於照明設備及電源充電器。

SPECIFICATIONS

Items 項 目	Characteristics 特 性				
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)				
Operating Temperature Range 適用溫度範圍	-40 ~ +105℃				
Rated Voltage Range 額定電壓範圍	160~400VDC				
Capacitance Range 靜電容量範圍	2.2 ~ 82μF				
Leakage Current 洩漏電流	I ≦ 0.04CV +100(μA) (After 2 minutes application of DC rated voltage, at 20℃)				
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃				
	Rated Voltage(V)	160~250		400	
	tan δ(Max)	0.2		0.25	
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.				
	Rated Voltage(V)	160	200	250	400
	Z(-25℃)/Z(20℃)	3	3	3	6
	Z(-40℃)/Z(20℃)	6	6	6	10
Load Life 負荷壽命	2000hours,with application of rated voltage at 105℃				
	Capacitance Change	Within ± 20% of Initial Value			
	tan δ	200% or less of Initial Specified Value			
	Leakage Current	Initial Specified Value or less			
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 500 hours 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.				
	Capacitance Change	Within ± 20% of Initial Value			
	tan δ	200% or less of Initial Specified Value			
	Leakage Current	Initial Specified Value or less			
Resistance to Soldering Heat 焊錫耐熱性	The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature they meet the characteristics requirements listed at right.	Capacitance Change	Within ± 10% of Initial Value		
		tan δ	Initial Specified Value		
		Leakage Current	Initial Specified Value or less		
Standards 參照標準	IEC 60384-4 (JIS C 5101-4)				

Frequency Coefficient of Permissible Ripple Current

Frequency (Hz) / Capacitance (μF)	50	120	300	1K	≧10K
2.2~82	0.70	1.00	1.17	1.36	1.50

CL series

DIMENSIONS(mm)

■Chip Type

Fig.1 ΦD=8~ 10mm

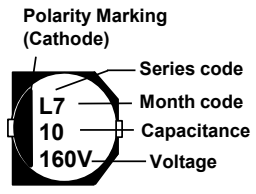
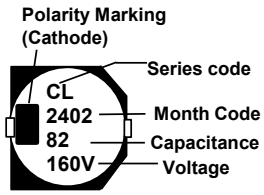
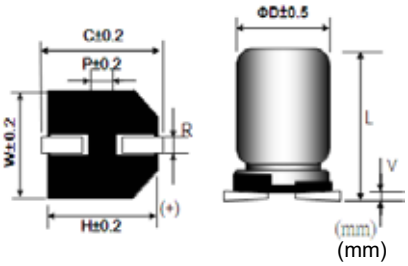


Fig.2 ΦD≧12.5mm





(mm)

Size	ΦD	L	W	H	C	R	P	Vmax
8×10.5	8.0	10.5±0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10×10.5	10.0	10.5±0.5	10.3	10.3	11.0	1.0~1.3	4.5	0.3
12.5×13.5	12.5	13.5±1.0	13.0	13.0	13.7	1.1~1.4	4.5	0.4
16×16.5	16.0	16.5±1.0	17.0	17.0	18.0	1.4~1.8	6.4	0.4

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105℃ 120Hz.

Cap (μF)	V	160		200		250		400	
	Item	D x L	R.C.	DxL	R.C.	D x L	R.C.	D x L	R.C.
2.2								8x10.5	25
3.3						8x10.5	31	10x10.5	36
4.7						8x10.5	37	10x10.5	38
6.8						8x10.5	44	12.5x13.5	47
10		8x10.5	57	10x10.5	64	10x10.5	64	12.5x13.5	57
22		12.5x13.5	112	12.5x13.5	112	12.5x13.5	112	16x16.5	115
33		12.5x13.5	137	12.5x13.5	137	16x16.5	150		
47		16x16.5	180	16x16.5	180	16x16.5	180		
68		16x16.5	215	16x16.5	215				
82		16x16.5	235						