

CGL series

- Low impedance, 125°C 2000~3000 hours Long Life.
- Applicable to SMT process.
- RoHS Compliance.
- 125°C低阻抗、2000~3000hours長壽命產品。
- 適用於SMT製程。



SPECIFICATIONS

Items 項目	Characteristics 特性				
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)				
Operating Temperature Range 適用溫度範圍	-40 ~ +125°C				
Rated Voltage Range 額定電壓範圍	16~50VDC				
Capacitance Range 靜電容量範圍	33~330μF				
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (μA), which is greater. (After 2 minutes application of DC rated voltage, at 20°C)				
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C				
	Rated Voltage(V)	16	25	35	50
	tan δ(Max)	0.23	0.18	0.16	0.14
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.				
	Rated Voltage(V)	16	25	35	50
	Z(-25°C)/Z(20°C)	3	3	2	2
	Z(-40°C)/Z(20°C)	4	4	3	3
Load Life 負荷壽命	3000hours,with application of rated voltage at 125°C				
	Capacitance Change	Within ±30% of Initial Value			
	tan δ	300% 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°C after exposing them for 1000 hours 125°C 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 ±30% of Initial Value			
	tan δ	300% 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°C for 30 seconds.			Capacitance Change	Within ± 10% of Initial Value
	After removing from the hot plate and restored at room temperature they meet the characteristics requirements listed at right.			tan δ	Initial Specified Value
				Leakage Current	Initial Specified Value or less
Standards 參照標準	JIS C 5101-4-1 (IEC 60384)				

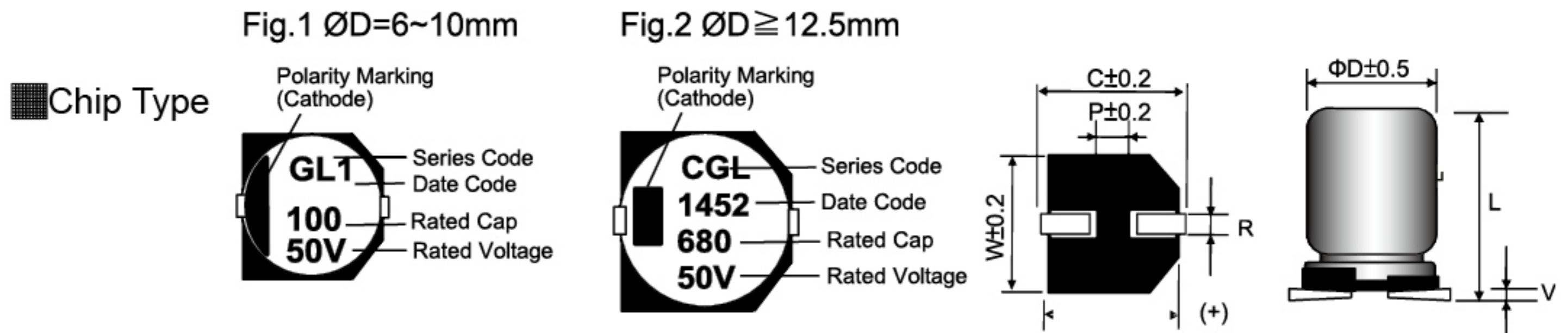
Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	120 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F
Capacitance (μF)				
33~330	0.4	0.75	0.9	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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DIMENSIONS(mm)



CGL

Size	$\varnothing D$	L	W	H	C	R	P	Vmax
6.3 × 6	6.3	6.0 ± 0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3 × 7.7	6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
8 × 10	8.0	10.0 ± 0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10 × 10	10.0	10.0 ± 0.5	10.3	10.3	11.0	0.7~1.1	4.5	0.3
12.5 × 13.5	12.5	13.5 ± 0.5	13.0	13.0	13.7	1.1~1.4	4.5	0.4
12.5 × 16	12.5	16.5 ± 0.5	17.0	17.0	18.0	1.4~1.8	6.4	0.4

(mm)

$D \times L$ (mm); R.C. (ms) at 125°C 100kHz, ESR (Ω max)

STANDARD RATINGS

Cap (μF)	V	16				25				35				50				
		Item	D x L	R.C.	ESR		D x L	R.C.	ESR		D x L	R.C.	ESR		D x L	R.C.	ESR	
					20°C	-40°C			20°C	-40°C			20°C	-40°C			20°C	-40°C
33		6.3x6	70	1.0	15	6.3x6	70	1.0	15					8x10	250	0.36	4.5	
47														8x10	250	0.36	4.5	
		6.3x7.7	200	0.70	10	6.3x7.7	200	0.70	10	8x10	300	0.30	4.5	10x10	350	0.25	3	
100										8x10	300	0.30	4.5	10x10	350	0.25	3	
		8x10	300	0.30	4.5	8x10	300	0.30	4.5	10x10	500	0.20	3					
220		8x10	300	0.30	4.5	8x10	300	0.30	4.5	10x10	500	0.20	3					
		10x10	500	0.20	3	10x10	500	0.20	3									
330		10x10	500	0.20	3	10x10	500	0.20	3									
680										12.5x16	1470	0.056	2					