

CG series

- Wide range of -55~+125°C, long life product.
- Applicable to SMT process.
- RoHS Compliance.
- -55 ~ +125°C廣溫度、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	-55 ~ +125°C					-40 ~ +125°C				
Rated Voltage Range 額定電壓範圍	10 ~ 63VDC					80 ~ 160VDC				
Capacitance Range 靜電容量範圍	10 ~ 470µF					2.2 ~ 4.7µF				
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)	10	16	25	35	50	63	80	100	160
	tan δ(Max)	0.32	0.24	0.21	0.18	0.18	0.15	0.15	0.12	0.20
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.									
	Rated Voltage(V)	10	16	25	35	50	63	80	100	160
	Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2	2	-
	Z(-40°C)/Z(20°C)	-	-	-	-	-	-	3	3	-
	Z(-55°C)/Z(20°C)	6	4	4	3	3	3	-	-	-
Load Life 負荷壽命	3000hours,with application of rated voltage at 125°C (ØD=4~6.3x5.4mm : 1000hrs;6.3x7.7mm : 2000hrs)									
	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 1,000 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	500% or less of Initial Specified Value								
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			
Marking 標識	Black print on the case top									

Frequency Coefficient of Permissible Ripple Current

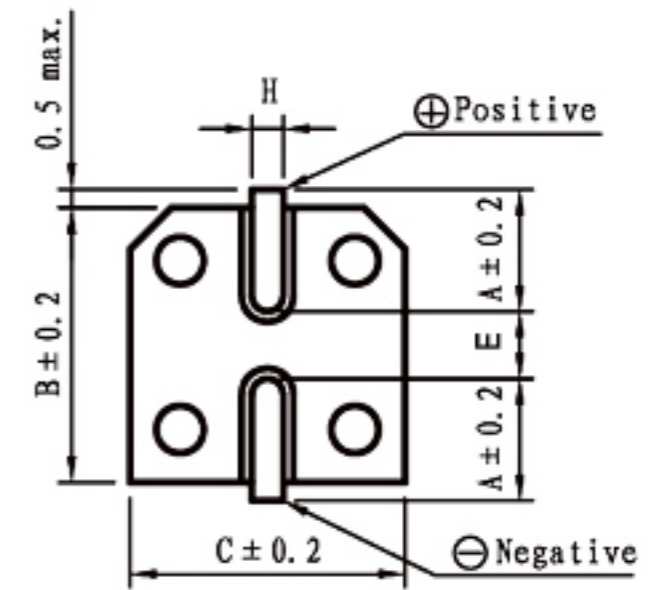
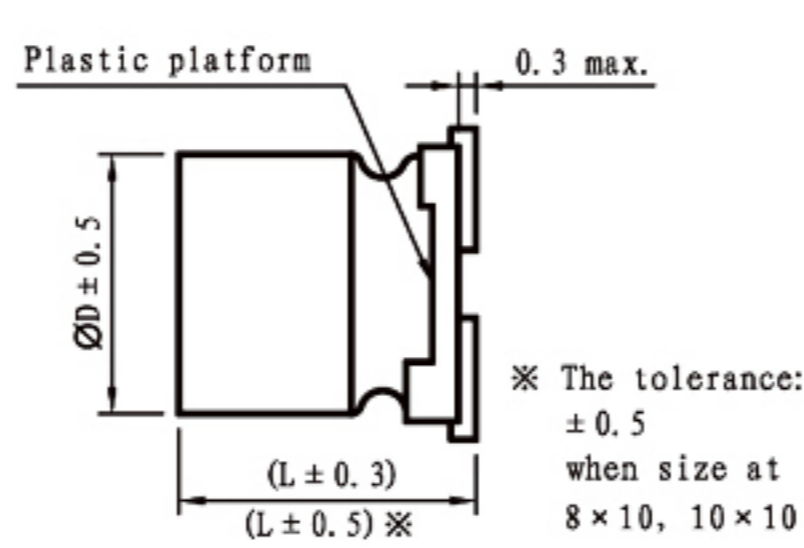
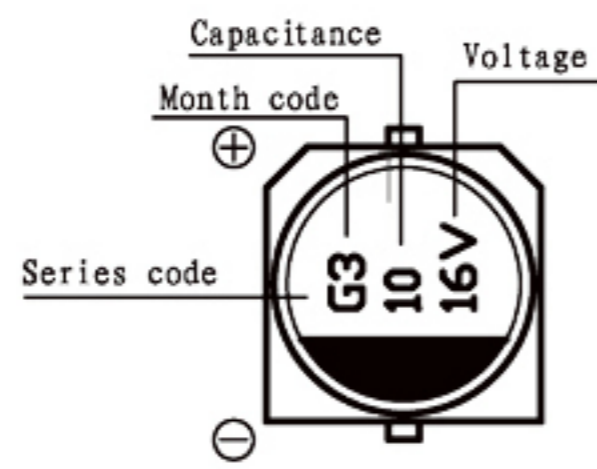
Frequency (Hz)	50	60	120	1K	≥10K
Coefficient	0.64	0.64	1.00	1.36	1.50

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)

Chip Type



φ D×L	6.3x5.4	6.3x7.7	8x10	10x10
A	2.4	2.4	2.9	3.2
B	6.6	6.6	8.3	10.3
C	6.6	6.6	8.3	10.3
E	2.1	2.1	3.2	4.5
L	5.4	7.7	10	10
H	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 125°C 120Hz.

Cap (μF)	V	10		16		25		35		50	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
10								6.3x5.4	46	6.3x7.7	34
22								6.3x5.4	46	6.3x7.7	55
33						6.3x5.4	46	6.3x7.7	73	8x10	106
47				6.3x5.4	40	6.3x7.7	73	6.3x7.7	73	8x10	106
										10x10	164
100		6.3x7.7	58	6.3x7.7	73	6.3x7.7	73	8x10	131	10x10	164
						8x10	131	10x10	164		
220		6.3x7.7	58	8x10	131	8x10	131	10x10	164		
				10x10	164	10x10	164				
330		8x10	90	10x10	164	10x10	164				
		10x10	112								
470		10x10	130								

Cap (μF)	V	63		80		100		160	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
2.2								8x10	22
3.3								8x10	22
4.7								10x10	70
10		6.3x7.7	40	8x10	46	8x10	46		
22		8x10	66	8x10	46	8x10	46		
				10x10	76	10x10	76		
33		8x10	66	8x10	46	10x10	76		
		10x10	113	10x10	76				
47		8x10	66						
		10x10	113						