

CG Chip type, Miniaturization Series

- Chip type, miniaturized temperature range up to 105°C
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive
- AEC-Q200 compliant : Please contact us for more details.



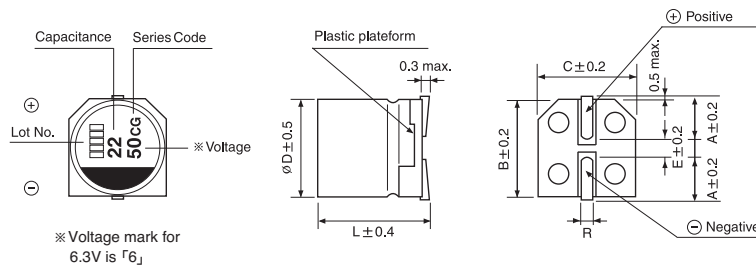
Item	Characteristics						
Operating temperature range	-55 ~ +105°C						
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)						
Capacitance tolerance	±20% at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35 ~ 50	63 ~ 80
	tanδ	0.24	0.19	0.16	0.14	0.12	0.08
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16	25	35 ~ 50	63 ~ 80
	Z-25°C/Z+20°C	2	2	2	2	2	2
	Z-55°C/Z+20°C	3	3	3	3	3	3
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current		Less than specified value				
	Capacitance change		Within ±25% of initial value				
	tanδ		Less than 200% of specified value (63~80V : 300%)				
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4						
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 10 seconds.						
	Leakage current		Less than specified value				
	Capacitance change		Within ±10% of initial value				
	tanδ		Less than specified value				

DRAWING

Unit : mm

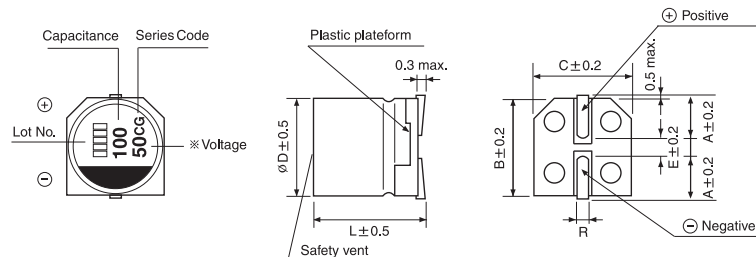
-Series code of CG is "CG"

(Ø6.3, Ø8×6.2)



ØD	A	B	C	E	R
6.3×7.7	2.4	6.6	6.6	2.2	0.5~0.8
8×10	2.9	8.3	8.3	3.1	0.8~1.1
10×10	3.2	10.3	10.3	4.5	0.8~1.1

(Ø8×10, Ø10×10)



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CG series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	6.3			10			16			25			35			50		
100																6.3×7.7	0.34	350
150										6.3×7.7	0.16	600	6.3×7.7	0.16	600			
220										6.3×7.7	0.16	600				8×10	0.18	670
330				6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10	0.08	850	10×10	0.12	900
470	6.3×7.7	0.16	600	6.3×7.7	0.16	600				8×10	0.08	850						
560													10×10	0.06	1190			
680	6.3×7.7	0.16	600				8×10	0.08	850				10×10	0.06	1190			
820										10×10	0.06	1190						
1000				8×10	0.08	850	10×10	0.06	1190									
1500	8×10	0.08	850	10×10	0.06	1190												
2200	10×10	0.06	1190															

↑ ↑ ↑
Ripple current (mA rms) at 105°C, 100kHz
Impedance (Ω) at 20°C, 100kHz
Case size ØD x L (mm)

μF \ WV	63			80		
33				6.3×7.7	0.80	190
47	6.3×7.7	0.80	190			
68				8×10	0.40	300
100	8×10	0.40	300	10×10	0.25	500
220	10×10	0.25	500			

↑ ↑ ↑
Ripple current (mA rms) at 105°C, 100kHz
Impedance (Ω) at 20°C, 100kHz
Case size ØD x L (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz≤
Coefficient	0.35	0.5	0.64	0.83	1.00