

## 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



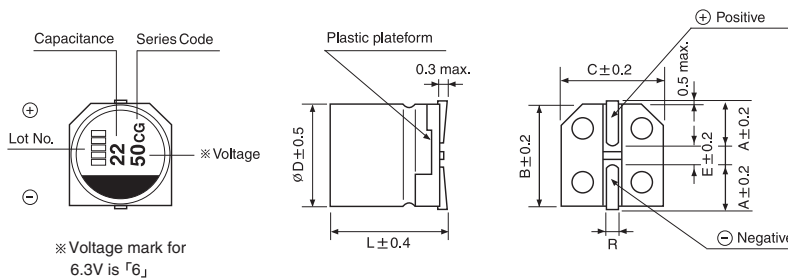
Item	Characteristics
<b>Operating temperature range</b>	-55 ~ +105°C
<b>Leakage current max.</b>	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)
<b>Capacitance tolerance</b>	$\pm 20\%$ at 120Hz, 20°C
<b>Dissipation factor max. (at 120Hz, 20°C)</b>	WV      6.3      10      16      25      35      50
	tan $\delta$ 0.26    0.19    0.16    0.14    0.12    0.12
<b>Low temperature characteristics (Impedance ratio at 120Hz)</b>	WV      6.3      10      16      25      35      50
	Z-25°C/Z+20°C    2      2      2      2      2      2
	Z-55°C/Z+20°C    4      4      4      3      3      3
<b>Load life (after application of the rated voltage for 2000 hours at 105°C)</b>	Leakage current      Less than specified value
	Capacitance change      Within $\pm 30\%$ of initial value
	tan $\delta$ Less than 200% of specified value
<b>Shelf life (at 105°C)</b>	After 1000 hours no load test, leakage current, capacitance and tan $\delta$ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4
<b>Resistance to soldering heat</b>	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 $\pm 10\%$ of initial value
	tan $\delta$ Less than specified value

### DRAWING

Unit : mm

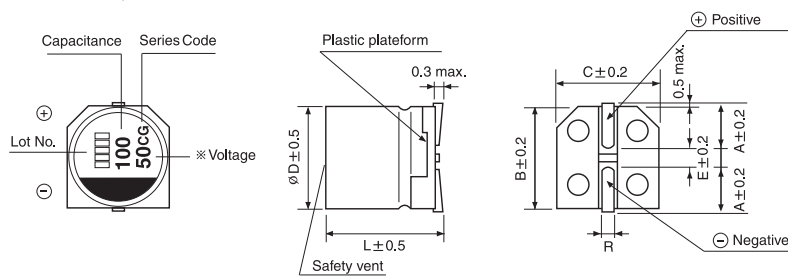
-Series code of CG is "CG"

( $\varnothing 6.3 \times 7.7$ )



$\varnothing D$	A	B	C	E	R
<b>6.3 × 7.7</b>	2.4	6.6	6.6	2.2	0.5~0.8
<b>8 × 10</b>	2.9	8.3	8.3	3.1	0.8~1.1
<b>10 × 10</b>	3.2	10.3	10.3	4.5	0.8~1.1

( $\varnothing 8 \times 10, \varnothing 10 \times 10$ )

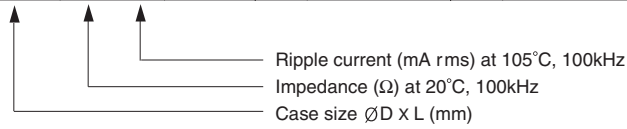


# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

**CG** series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$ \diagdown 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									
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															



## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz $\leq$
Coefficient	0.35	0.5	0.64	0.83	1.00