

Upgrade

CM

Chip type, Extremely Low Impedance
Long Life Series

Low Impedance



Solvent Proof

- Chip type, low impedance temperature range up to 105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive



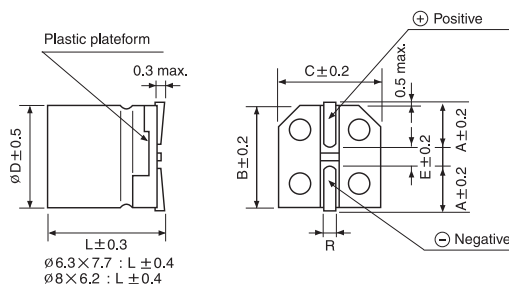
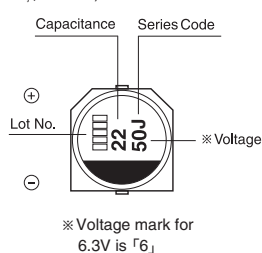
Item	Characteristics							
Operating temperature range	-55 ~ +105°C							
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)							
Capacitance tolerance	± 20% at 120Hz, 20°C							
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50	63 ~ 100
	tanδ	0.26	0.19	0.16	0.14	0.13	0.12	0.10
Low temperature characteristics (Impedance ratio at 120Hz)	WV		6.3	10	16	25	35	50 ~ 100
	Z-25°C/Z+20°C		2	2	2	2	2	2
	Z-55°C/Z+20°C		4	4	4	3	3	3
Load life (after application of the rated voltage for 5000 hours at 105°C)	Leakage current			Less than specified value				
	Capacitance change			Within ± 30% of initial value				
	tanδ			Less than 250% of specified value				
	ØD		ØD ≤ 6.3, Ø8×6.2mmL			ØD ≥ 8		
	Life time		3000 hours			5000 hours		
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

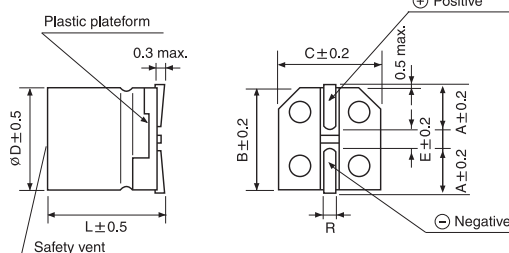
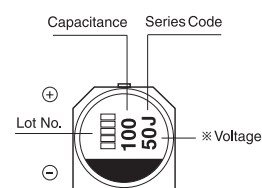
-Series code of CM is "M"

(Ø6.3, Ø8×6.2)

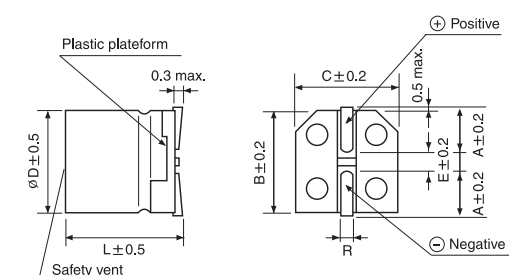
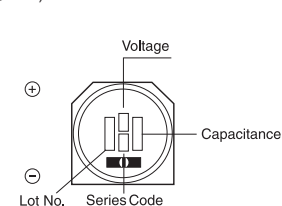


ØD×L	A	B	C	E	R
6.3×5.8	2.4	6.6	6.6	2.2	0.5~0.8
6.3×7.7	2.4	6.6	6.6	2.2	0.5~0.8
8×6.2	3.3	8.3	8.3	2.3	0.5~0.8
8×10	2.9	8.3	8.3	3.1	0.8~1.1
10×10	3.2	10.3	10.3	4.5	0.8~1.1
12.5×13.5	4.6	12.8	12.8	4.5	0.8~1.4

(Ø8×10, Ø10×10)



(Ø12.5)



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CM series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μ F \ WV	6.3			10			16			25			35			50		
10																6.3×5.8	0.86	170
15																6.3×5.8	0.86	170
22																6.3×5.8	0.86	170
33							6.3×5.8	0.43	240	6.3×5.8	0.43	240	6.3×5.8	0.43	240	6.3×7.7	0.66	280
																8×6.2	0.63	300
47				6.3×5.8	0.43	240	6.3×5.8	0.43	240	6.3×5.8	0.43	240	6.3×5.8	0.43	240	6.3×7.7	0.66	280
																	8×6.2	0.63
68	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×7.7	0.32	290	8×10	0.32	350
100	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×7.7	0.32	290	8×10	0.16	600	10×10	0.16	700
										8×6.2	0.26	300						
150	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×7.7	0.32	290	8×10	0.16	600	8×10	0.16	600			
220	6.3×5.8	0.39	240	6.3×7.7	0.36	290	6.3×7.7	0.32	290	8×10	0.16	600	10×10	0.08	850			
				8×6.2	0.26	300	8×6.2	0.26	300									
330	6.3×7.7	0.32	290	8×10	0.16	600	8×10	0.16	600	10×10	0.1	850						
	8×6.2	0.26	300															
470	8×10	0.16	600	8×10	0.16	600	10×10	0.08	850	← Ripple current (mA rms) at 105°C, 100kHz ↑ Impedance (Ω) at 20°C, 100kHz ↑ Case size ØD x L (mm)								
680	8×10	0.16	600	10×10	0.08	850												
1000	10×10	0.08	850															

μF \ WV	63			80			100		
10	6.3×7.7	2	80	6.3×7.7	2.4	60	8×10	2	100
22	6.3×7.7	1.2	120	8×10	1.3	130	8×10	2	140
33	8×10	0.65	250	8×10	1.3	130	10×10	0.8	330
47	8×10	0.65	250	10×10	0.7	200	12.5×13.5	0.45	500
68	10×10	0.35	400	12.5×13.5	0.32	500	12.5×13.5	0.45	500
100	10×10	0.35	400	12.5×13.5	0.32	500			
150	12.5×13.5	0.16	800	12.5×13.5	0.32	500			
220	12.5×13.5	0.16	800						

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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