



Chip type, Higher Capacitance Range Series

- Chip type higher capacitance in large case sizes
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

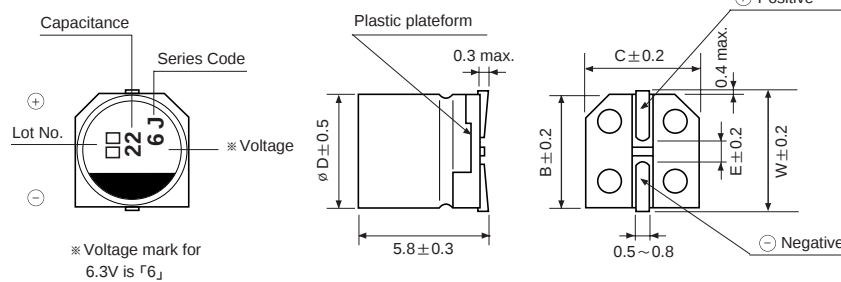


Item	Characteristics														
Operating temperature range	WV ≤ 100 : -55 ~ +105°C WV ≥ 160 : -40 ~ +105°C														
Leakage current max.	WV ≤ 100 I = 0.01CV or 3μA whichever is greater (after 2 minutes) WV ≥ 160 I = 0.04CV + 100μA(after 1 minutes)														
Capacitance tolerance	± 20% at 120Hz, 20°C														
Dissipation factor max. (at 120Hz, 20°C)	WV	4	6.3	10	16	25	35	50	63	100	160	200	250	400	450
	tanδ	0.37	0.22 (0.28)	0.19 (0.24)	0.16 (0.20)	0.14 (0.16)	0.12 (0.13)	0.10 (0.12)	0.10	0.10	0.15	0.15	0.15	0.20	0.20
	Figures in () are for small size, over the 6.3 × 5.8(∅ D × L)														
Low temperature characteristics (Impedance ratio at 120Hz)	WV			4	6.3	10	16	25 ~ 50		63 ~ 100		160 ~ 250		400 ~ 450	
	Z-25°C/Z+20°C			6	3	3	2	2		3		3		6	
	Z-40°C/Z+20°C			12	8	5	4	3		4		6		10	
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current						Less than specified value								
	Capacitance change						Within ± 20% of initial value (Small size : ± 25%)								
	tanδ						Less than 200% of specified value								
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.														
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 30 seconds.														
	Leakage current						Less than specified value								
	Capacitance change						Within ± 10% of initial value								
	tanδ						Less than specified value								

DRAWING

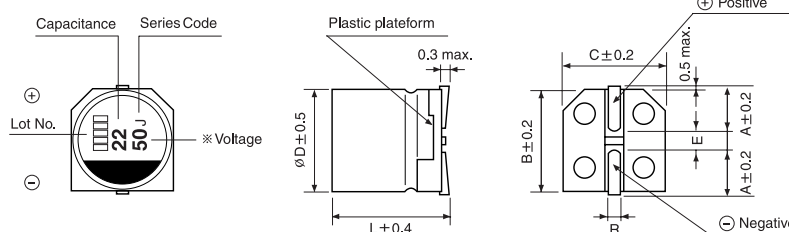
Unit : mm

(ø 4, ø 5, ø 6.3 × 5.8mmL)

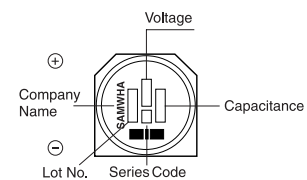


ø D	W	A	B	C	E	R
6.3 × 5.8	7.1		6.6	6.6	2.2	0.5~0.8
8 × 6.2		3.3	8.3	8.3	2.3	0.5~0.8
8 × 10		2.9	8.3	8.3	3.1	0.8~1.1
10 × 10		3.2	10.3	10.3	4.5	0.8~1.1
12.5 × 13.5		4.6	12.8	12.8	4.5	1.1~1.4

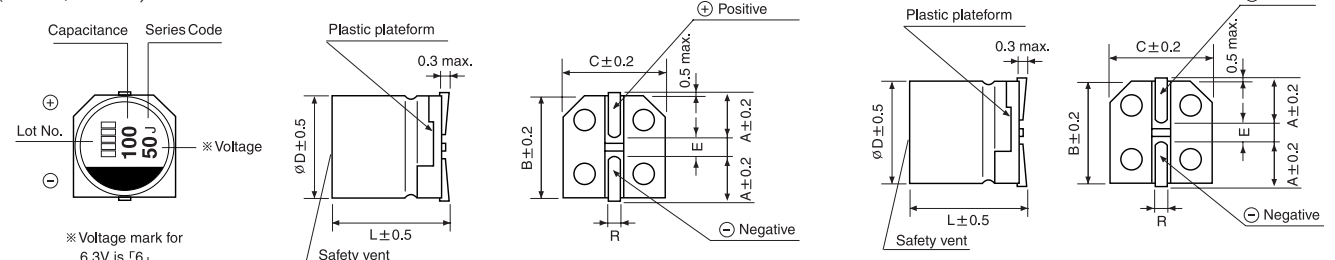
(ø 8 × 6.2)



(ø 12.5 × 13.5mmL)



(ø 8 × 10, ø 10 × 10)



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

JC series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	4		6.3		10		16		25		35		50	
10													6.3 × 5.8	30
22									6.3 × 5.8	38	6.3 × 5.8	42	8 × 6.2	67
33							6.3 × 5.8	40	6.3 × 5.8	48	8 × 6.2	76	8 × 10	133
47					6.3 × 5.8	46	6.3 × 5.8	50	8 × 6.2	79	8 × 10	124	10 × 10	180
100	6.3 × 5.8	60	6.3 × 5.8	60	6.3 × 5.8	60	8 × 10	148	8 × 10	181	10 × 10	304	10 × 10	310
220			8 × 10	161	8 × 10	173	10 × 10	330	10 × 10	351	10 × 10	450	12.5 × 13.5	480
330			8 × 10	288	10 × 10	318	10 × 10	441	10 × 10	372	12.5 × 13.5	500		
470			10 × 10	340	10 × 10	351	10 × 10	489	10 × 10	450	12.5 × 13.5	600		
680			10 × 10	408	10 × 10	392	12.5 × 13.5	500	12.5 × 13.5	500				
1000			10 × 10	495	10 × 10	550	12.5 × 13.5	600						
1500			10 × 10	560	12.5 × 13.5	650								
2200			12.5 × 13.5	730										

μF \ WV	63		100		160		200		250		400		450	
3.3									10 × 10	30	12.5 × 13.5	30	12.5 × 13.5	40
4.7							10 × 10	45	12.5 × 13.5	65				
10	8 × 6.2	32			10 × 10	45	12.5 × 13.5	75						
22	8 × 10	60	8 × 10	90	12.5 × 13.5	85	12.5 × 13.5	85	← Ripple current (mA rms) at 105°C, 120Hz					
33	8 × 10	110	10 × 10	120	12.5 × 13.5	95	↑ Case size $\varnothing D \times L$ (mm)							
47	10 × 10	130												