

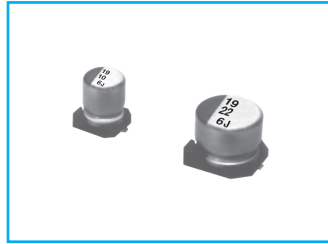
# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

## JC Series

Chip type, Higher Capacitance Range Series

Solvent Proof  
WV ≤ 100V

RC → Long life **JC**

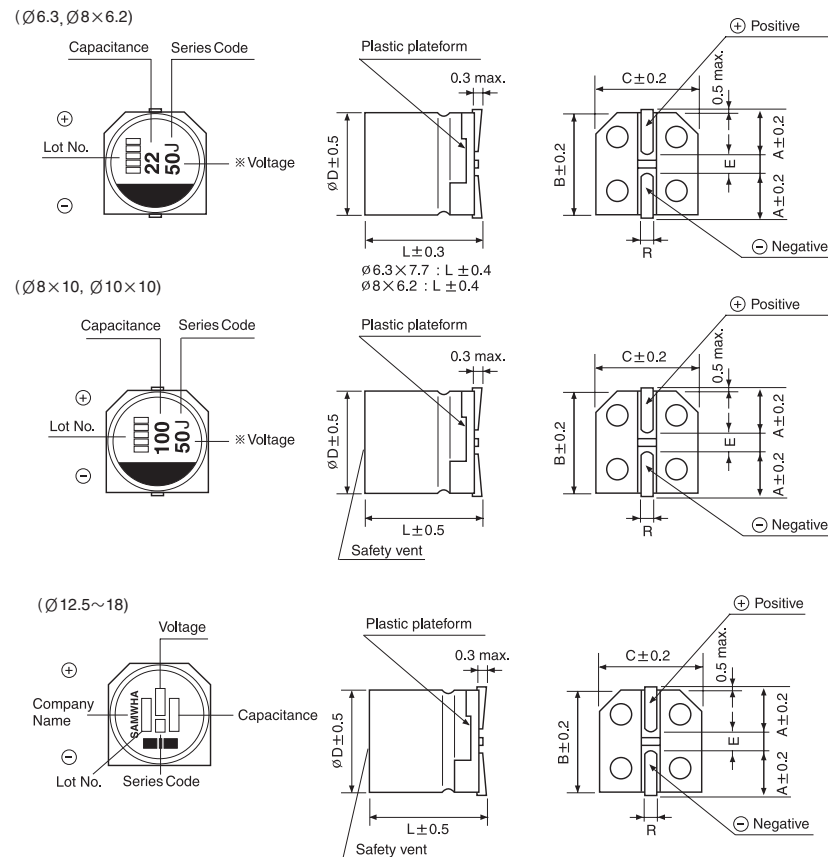


- Chip type higher capacitance in large case sizes
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

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)	<table border="1"> <thead> <tr> <th>WV</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.37</td> <td>0.22 (0.28)</td> <td>0.19 (0.20)</td> <td>0.16 (0.20)</td> <td>0.14 (0.16)</td> <td>0.12 (0.13)</td> <td>0.10 (0.12)</td> <td>0.10</td> <td>0.10</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	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 (0.20)	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
	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 (0.20)	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																	
( ) : Small size between two size in dimension table and over the 6.3×5.8(∅D×L)																															
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>WV</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25 ~ 50</th> <th>63 ~ 100</th> <th>160 ~ 250</th> <th>400 ~ 450</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>6</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>6</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>12</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>4</td> <td>6</td> <td>10</td> </tr> </tbody> </table>	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			
	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



∅D×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	1.1~1.4
16×16.5	5.6	16.8	16.8	6.5	1.1~1.4
16×21.5	5.6	16.8	16.8	6.5	1.1~1.4
18×16.5	6.6	18.8	18.8	6.5	1.1~1.4
18×21.5	6.6	18.8	18.8	6.5	1.1~1.4

# 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	16×16.5 500
470		10×10 340	10×10 351	10×10 489	10×10 450	12.5×13.5 600 16×16.5	16×21.5 550 18×16.5
680		10×10 408	10×10 392	12.5×13.5 500	12.5×13.5 500	16×16.5 620	18×16.5 690
1000		10×10 495	10×10 550	12.5×13.5 600 16×16.5 630	16×21.5 630	16×21.5 750	18×21.5 820
1500		10×10 560	12.5×13.5 650	16×16.5 770	16×21.5 780	18×21.5 905	
2200		12.5×13.5 730 16×16.5 750	16×16.5 810	16×21.5 930	18×21.5 930		
3300		16×21.5 930 18×16.5	16×21.5 1100	18×21.5 1150			
4700		18×21.5 1100	18×21.5 1200				

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	16×16.5 60	16×16.5 60
10	8×6.2 32		10×10 45	12.5×13.5 75	16×16.5 100	16×16.5 85	16×16.5 85
22	8×10 60	8×10 90	12.5×13.5 85	12.5×13.5 85	16×16.5 180	18×21.5 130	18×21.5 130
33	8×10 110	10×10 120	12.5×13.5 95	16×16.5 220	16×21.5 230 18×16.5		
47	10×10 130	12.5×13.5 250	16×16.5 260	16×21.5 270 18×16.5	18×21.5 280		
68	10×10 160	12.5×13.5 300	16×21.5 320 18×16.5	18×21.5 330			
100	12.5×13.5 270	16×16.5 380	18×21.5 380	← Ripple current (mA rms) at 105°C, 120Hz			
220	16×16.5 385	16×21.5 440 18×16.5	↑ Case size ∅D x L (mm)				
330	16×21.5 490 18×16.5						
470	18×21.5 590						