

SMD ALUMINUM ELECTROLYTIC CAPACITOR

SA1

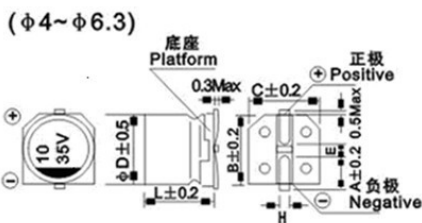
- A、Reflow soldering is available
- B、Available for high density surface mounting
- C、High stability and reliability
- D、Lifetime:85°C (105°C) ,2000Hr



SPECIFICATIONS

Operating Temperature Range	-10~+85°C(105°C)																						
Rated Voltage Range	6.3~50VDC																						
Nominal Capacitance Range	0.1~1500μF																						
Capacitance Tolerance	± 20%(120Hz,20°C)																						
Leakage Current	Less than 0.01C _R U _R or 3μA Whichever is greater(after 2 minutes)																						
Dissipation Factor(120HZ 20°C)	<table border="1"> <tr> <td>U_R(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2">T_g δ</td> <td>φ 4~ φ 6.3</td> <td>0.26</td> <td>0.22</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> <tr> <td>φ 8/ φ 10</td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	T _g δ	φ 4~ φ 6.3	0.26	0.22	0.20	0.18	0.16	0.14	φ 8/ φ 10	0.35	0.26	0.20	0.16	0.14	0.12
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Temperature Characteristics Impedance Ratio(120HZ)	<table border="1"> <tr> <td>U_R(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	Z-40°C/Z+20°C	8	8	4	4	3	3								
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Load Life	After applying rated voltage for 2000 hours at +85°C and then resumed 16 hours.The capacitor shall meet the following limits.																						
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Shelf Life	After storage for 1000 hours at +85°C and then resumed 16 hours.The capacitor shall meet the following limits.																						
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Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds.After removing from the hot plate and restored at room temperature,then meet the following requirement																						
	<table border="1"> <tr> <td>Capacitance change</td> <td>≤ ± 10% of Initial measured value</td> </tr> <tr> <td>Leakage</td> <td>≤ Initial specified value</td> </tr> <tr> <td>Dissipation factor</td> <td>≤ 200% of Initial specified value</td> </tr> </table>	Capacitance change	≤ ± 10% of Initial measured value	Leakage	≤ Initial specified value	Dissipation factor	≤ 200% of Initial specified value																
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DIMENSLONS&MARKING



	φ 4×5.4	φ 5×5.4	φ 6.3×5.4	φ 6.3×7.7	φ 8×10.2	φ 10×10.2
A	1.8	2.1	2.4	2.5	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	1.8	1.8	3.1	4.2
L	5.4	5.4	5.4	7.7	10.2	10.2
H	0.5~0.8				0.8~1.1	0.8~1.1

NOMINAL CAPACITANCE,RATED VOLTAGE,RATED RIPPLE CURRENT AND CASE SIZE TABLE

V	6.3		10		16		25		35		50	
μF	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	2.8
0.47											4×5.4	4.0
1.0											4×5.4	8.4
2.2											4×5.4	13
3.3									4×5.4	18	4×5.4	18
4.7							4×5.4	16	4×5.4	20	5×5.4	20
10					4×5.4	23	4×5.4	24	5×5.4	29	6.3×5.4	33
22	4×5.4	28	4×5.4	30	5×5.4	37	5×5.4	38	6.3×5.4	46	6.3×5.4	43
33	5×5.4	37	5×5.4	41	5×5.4	44	6.3×5.4	52	6.3×5.4	53	6.3×7.7	85
47	5×5.4	45	6.3×5.4	52	6.3×5.4	58	6.3×5.4	60	6.3×7.7	70	8×10.2	140
100	6.3×5.4	70	6.3×5.4	76	6.3×5.4	86	6.3×7.7	130	8×10.2	175	10×10.2	195

220	6.3×5.4	95	6.3×7.7	150	6.3×7.7	150	8×10.2	232	10×10.2	265	10×10.2	415
330	6.3×7.7	150	8×10.2	240	8×10.2	270	10×10.2	305	10×10.2	324		
470	8×10.2	265	8×10.2	290	10×10.2	330	10×10.2	393				
1000	10×10.2	400	10×10.2	454								
1500	10×10.2	489										

Rated ripplecurrent: (mA,85°C,120Hz)

FREQUENCY COEFFICIENT OF RATED RIPPLE CURRENT

Frequency		50Hz	120 Hz	300 Hz	1KHz	10K Hz≤
Coefficient	0.1~47μF	0.80	1.00	1.20	1.30	1.50
	100~1500μF	0.80	1.00	1.10	1.15	1.20

