

SMD ALUMINUM ELECTROLYTIC CAPACITOR 125°C

SA2

- A. Reflow soldering available for reflow soldering.
- B. Available for high density density surface mounting.
- C. High stability and reliability.
- D. Lifetime: 125°C, 1000Hr
- E. Adapted to the ROHS.REACH directive.



SPECIFICATIONS

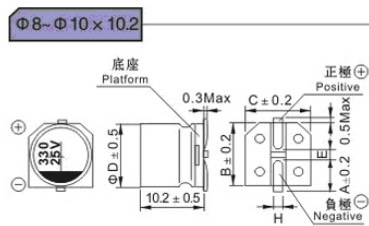
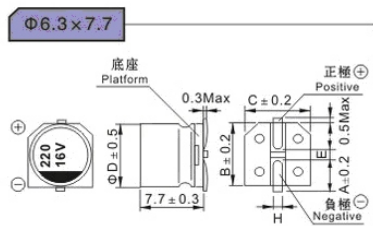
Operating temperature range	-40~+125°C
Rated voltage range	10V~50V DC
Nominal capacitance range	10~330μF
Nominal capacitance tolerance	±20%(120Hz,20°C)

Part No.And Description

SA2 Series No.	100uF Capacitance	M Tolerance M=20% K=10%	1H Voltage 0J=6.3V,1J=63V 1A=10V,2A=100V 1C=16V,2C=160V 1D=20V,2D=200V 1E=25V,2E=250V 1V=35V,2V=350V 1G=40V,2G=400V 1W=45V,2W=450V 1H=50V,2H=500V	1251K Life 1,000hr	1010 Size 10*10.2 mm
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Leakage current	Less than 0.01C _R U _R (μA) or 3μ whichever is greater(after 2 minutes)																		
Dissipation factor(120Hz 20°C)	<table border="1"> <tr> <td>U_R(V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tgδ</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> </table>	U _R (V)	10	16	25	35	50	tgδ	0.24	0.20	0.18	0.16	0.14						
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Temperature Characteristics Impedance Ratio(120HZ)	<table border="1"> <tr> <td>U_R(V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	10	16	25	35	50	Z-25°C/Z+20°C	3	2	2	2	2	Z-40°C/Z+20°C	8	6	4	3	3
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Load Life	<p>After applying rated voltage for 1000 hours at +125°C and then resumed 16 hours,the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>≤ ± 30% of initial measured value</td> </tr> <tr> <td>Leakage</td> <td>≤ initial specified value</td> </tr> <tr> <td>Dissipation factor</td> <td>≤ 300% of initial specified value</td> </tr> </table>	Capacitance change	≤ ± 30% of initial measured value	Leakage	≤ initial specified value	Dissipation factor	≤ 300% of initial specified value												
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Resistance to Soldering Heat	<p>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.</p> <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>≤ initial specified value</td> </tr> </table>	Capacitance change	≤ ± 10% of initial measured value	Leakage	≤ initial specified value	Dissipation factor	≤ initial specified value												
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DIMENSLONS&MARKING



φ D	A	B	C	E	L	H
6.3	2.5	6.6	6.6	2.1	7.7	0.5~0.8
8.0	2.9	8.3	8.3	3.1	10.2	0.8~1.1
10.0	3.2	10.3	10.3	4.2	10.2	0.8~1.1

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

WV	10		16		25		35		50	
	D×Lmm	125°CmA	D×Lmm	125°CmA	D×Lmm	125°CmA	D×Lmm	125°CmA	D×Lmm	125°CmA
10									6.3×7.7	25
22									6.3×7.7	50
33							6.3×7.7	53	8×10.2	74
47					6.3×7.7	56	8×10.2	79	10×10.2	94
100	6.3×7.7	62	8×10.2	89	8×10.2	84	10×10.2	101		
220	8×10.2	93	10×10.2	113						
330	10×10.2	118								

1~Rated ripple current(mA, 105°C, 120Hz)

Note:all designs and specifications are for reference only and are subject to change without prior notice,if any doubt about safety for your application,please contact us immediately for technical assistance before purchase.