



贴片型铝电解电容器

CHIP ALUMINUM ELECTROLYTIC CAPACITORS

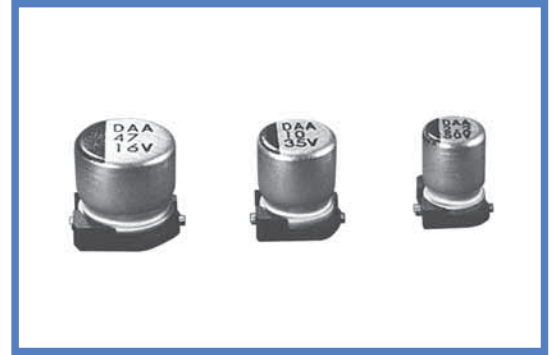
SGV

SGV 系列
SERIES

对应无铅焊接105℃标准品
105℃ Standard, Lead Free Reflow Soldering.

◆ 特 长 / FEATURES

- 105℃ 2000小时品。
Load Life : 105℃ 2000 hours.
- 可以进行无铅回流焊接。
Lead free reflow soldering is available.
- 适用于高密度贴片安装。
Available for high density mounting.
- RoHS指令对应品。
RoHS compliance.



◆ 规格表 / SPECIFICATIONS

项 目 Items	特 性 Characteristics																												
工作温度范围 Category Temperature Range	-55 ~ +105℃	-40 ~ +105℃																											
额定电压范围 Rated Voltage Range	6.3 ~ 50V.DC	63, 100V.DC																											
静电容量允许差 Capacitance Tolerance	±20% (20℃, 120Hz)																												
漏 电 流 Leakage Current(MAX)	小于 $I=0.01CV$ 和 $3\mu A$ 中的较大值 (施加额定电压2分钟后) $I=0.01CV$ or $3\mu A$ whichever is greater. (After 2 minutes application of rated voltage) I = 漏电流 (μA) C = 静电容量 (μF) V = 额定电压 (V) Leakage Current Capacitance Rated Voltage																												
损失角正切值 ($\tan \delta$) Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>额定电压 (V) Rated Voltage</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> </tr> </thead> <tbody> <tr> <td>$\phi 4, \phi 5, \phi 6.3 \times 6.1$</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>—</td> <td>—</td> </tr> <tr> <td>$\phi 6.3 \times 8, \phi 8 \sim \phi 18$</td> <td>0.35</td> <td>0.26</td> <td>0.24</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table> (20℃, 120Hz) 对于额定静电容量超过1000 μF 的产品, 其静电容量每增加1000 μF , 则损失角正切值在上表值的基础上加上0.02。 When rated capacitance is over 1000 μF , $\tan \delta$ shall be added 0.02 to the listed value with increase of every 1000 μF .		额定电压 (V) Rated Voltage	6.3	10	16	25	35	50	63	100	$\phi 4, \phi 5, \phi 6.3 \times 6.1$	0.30	0.24	0.20	0.16	0.14	0.12	—	—	$\phi 6.3 \times 8, \phi 8 \sim \phi 18$	0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10
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耐 久 性 Endurance	在105℃环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载2000小时后, 满足以下各项要求。 After applying rated voltage with rated ripple current for 2000 hours at 105℃, the capacitors shall meet the following requirements. <table border="1"> <thead> <tr> <th>静电容量变化率 Capacitance Change</th> <td>初期值的±25%以内 Within ±25% of the initial value.</td> </tr> <tr> <th>损失角正切值 Dissipation Factor</th> <td>规格值的200%以下 Not more than 200% of the specified value.</td> </tr> <tr> <th>漏 电 流 Leakage Current</th> <td>规格值以下 Not more than the specified value.</td> </tr> </thead> </table>		静电容量变化率 Capacitance Change	初期值的±25%以内 Within ±25% of the initial value.	损失角正切值 Dissipation Factor	规格值的200%以下 Not more than 200% of the specified value.	漏 电 流 Leakage Current	规格值以下 Not more than the specified value.																					
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低 温 特 性 Low Temperature Stability (阻抗比) Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>额定电压 (V) Rated Voltage</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> </tr> </thead> <tbody> <tr> <td>$Z(-25^\circ C)/Z(20^\circ C)$</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>$Z(-40^\circ C)/Z(20^\circ C)$</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> </tr> </tbody> </table> (120Hz)		额定电压 (V) Rated Voltage	6.3	10	16	25	35	50	63	100	$Z(-25^\circ C)/Z(20^\circ C)$	4	3	2	2	2	2	2	2	$Z(-40^\circ C)/Z(20^\circ C)$	8	8	4	4	3	3	5	5
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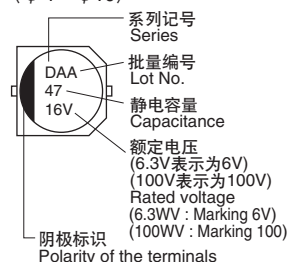
◆ 纹波电流修正系数 MULTIPLIER FOR RIPPLE CURRENT

频率系数 Frequency Coefficient

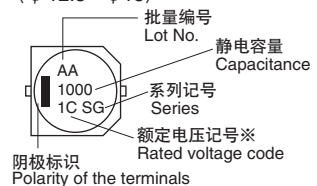
频率 (Hz) Frequency	60 (50)	120	500	1k	10k ≤
0.47 ~ 1 μF	0.50	1.00	1.20	1.30	1.50
2.2 ~ 4.7 μF	0.65	1.00	1.20	1.30	1.50
10 ~ 47 μF	0.80	1.00	1.20	1.30	1.50
100 ~ 1000 μF	0.80	1.00	1.10	1.15	1.20
2200 ~ 6800 μF	0.80	1.00	1.05	1.10	1.15

◆ 标 识 / MARKING

($\phi 4 \sim \phi 10$)



($\phi 12.5 \sim \phi 18$)



※电压记号 Voltage code

额定电压 (V) Rated Voltage	6.3	10	16	25	35	50	63	100
额定电压记号 Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A

◆ 产品型号体系 / PART NUMBER

□□□	SGV	□□□□□	M	□□□	D x L
额定电压 Rated Voltage	系列名称 Series	静电容量 Capacitance	静电容量允许差 Capacitance Tolerance	副记号 Option	铝壳尺寸 Case Size

