

SGV SERIES

105°C Long Life, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 105°C 2000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



◆ SPECIFICATIONS

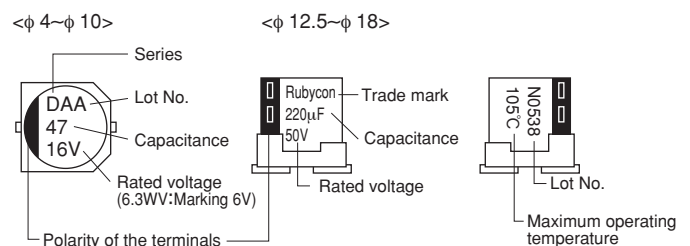
Items	Characteristics																															
Category Temperature Range	-55 ~ +105°C	-40 ~ +105°C																														
Rated Voltage Range	6.3~50V.DC	63 , 100V.DC																														
Capacitance Tolerance	± 20%(20°C, 120Hz)																															
Leakage Current(MAX)	I=0.01CV or 3µA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V)																															
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</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>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>φ 4, φ 5, φ 6.3×6.1</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></td> <td>φ 6.3×8, φ 8~φ 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> <p>When rated capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.</p>		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(20°C, 120Hz)	tanδ	φ 4, φ 5, φ 6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	-	-		φ 6.3×8, φ 8~φ 18	0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10
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Endurance	<p>After applying rated voltage with rated ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>		Capacitance Change	Within ±25% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.																								
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</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>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°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> <td></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> <td>5</td> <td>5</td> <td></td> </tr> </tbody> </table>		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(120Hz)	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2		Z(-40°C)/Z(20°C)	8	8	4	4	3	3	5	5	
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◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)	60(50)	120	500	1k	10k≤
0.1~1µF	0.50	1.00	1.20	1.30	1.50
2.2~4.7µF	0.65	1.00	1.20	1.30	1.50
10~47µF	0.80	1.00	1.20	1.30	1.50
100~1000µF	0.80	1.00	1.10	1.15	1.20
2200~6800µF	0.80	1.00	1.05	1.10	1.15

◆ MARKING



◆ PART NUMBER

