

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.

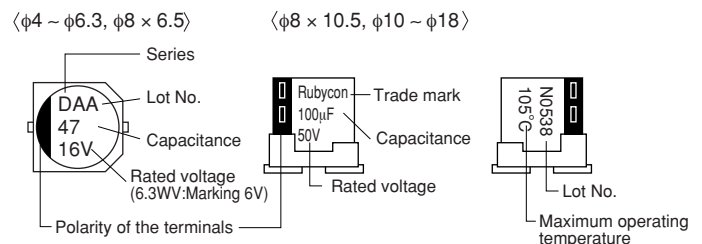

◆ SPECIFICATIONS

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 3 μ A whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																																						
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th rowspan="2">Rated Voltage (V)</th> <th colspan="8">Rated Voltage (V)</th> <th rowspan="2">(20°C, 120Hz)</th> </tr> <tr> <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 rowspan="2">tanδ</td> <td>φ4,φ5,φ6.3×6.1</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>φ6.3×8,φ8-φ18</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> When rated capacitance is over 1000μ F, tanδ shall be added 0.02 to the listed value with increase of every 1000μ F.		Rated Voltage (V)	Rated Voltage (V)								(20°C, 120Hz)	6.3	10	16	25	35	50	63	100	tanδ	φ4,φ5,φ6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	—	—	φ6.3×8,φ8-φ18	0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10
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Endurance	After applying rated voltage with rated ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <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> </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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◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.1 ~ 1μ F	0.50	1.00	1.20	1.30	1.50
	2.2 ~ 4.7μ F	0.65	1.00	1.20	1.30	1.50
	10 ~ 47μ F	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
