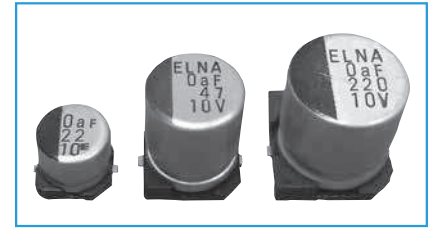


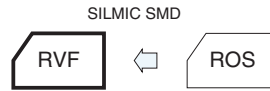
Chip Type, For Audio, High Grade (SILMIC) Capacitors

GREEN CAP SMD For Audio

- Silk fiber paper products used surface mount device.
- Completely new audio products for the high-grade paper using silk fiber paper.
- Silk "flexibility" to reduce the vibration energy of the music, in the sense of high-frequency peak, a significant decrease in roughness of the midrange and bass increase.



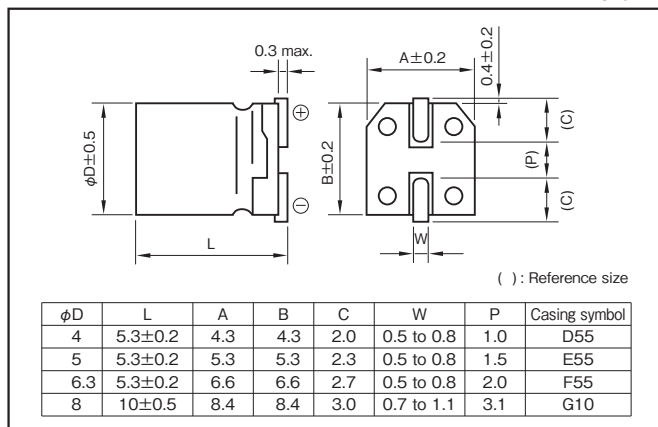
Marking color : Black print



Specifications

Item	Performance											
Category temperature range (°C)	-40 to +85											
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)											
Leakage current (µA)	Less than 0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (µF), V : Rated voltage (V) (20°C)											
Tangent of loss angle (tanδ)	<table border="1"> <tr> <th>Rated voltage (V)</th> <td>10</td> <td>16</td> <td>50</td> </tr> <tr> <th>tanδ (max.)</th> <td>0.32</td> <td>0.26</td> <td>0.12</td> </tr> </table> (20°C, 120Hz)	Rated voltage (V)	10	16	50	tanδ (max.)	0.32	0.26	0.12			
Rated voltage (V)	10	16	50									
tanδ (max.)	0.32	0.26	0.12									
Characteristics at high and low temperature	<table border="1"> <tr> <th>Rated voltage (V)</th> <td>10</td> <td>16</td> <td>50</td> </tr> <tr> <th rowspan="2">Impedance ratio (max.)</th> <td>Z-25°C/Z+20°C</td> <td>3</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>4</td> </tr> </table> (120Hz)	Rated voltage (V)	10	16	50	Impedance ratio (max.)	Z-25°C/Z+20°C	3	2	Z-40°C/Z+20°C	8	4
Rated voltage (V)	10	16	50									
Impedance ratio (max.)	Z-25°C/Z+20°C	3	2									
	Z-40°C/Z+20°C	8	4									
Endurance (85°C)	<table border="1"> <tr> <td>Test time</td> <td>2000 hours</td> </tr> <tr> <td>Leakage current</td> <td>The initial specified value or less</td> </tr> <tr> <td>Percentage of capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tangent of the loss angle</td> <td>200% or less of the initial specified value</td> </tr> </table>	Test time	2000 hours	Leakage current	The initial specified value or less	Percentage of capacitance change	Within ±20% of initial value	Tangent of the loss angle	200% or less of the initial specified value			
Test time	2000 hours											
Leakage current	The initial specified value or less											
Percentage of capacitance change	Within ±20% of initial value											
Tangent of the loss angle	200% or less of the initial specified value											
Shelf life (85°C)	Test time : 500hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4											
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)											

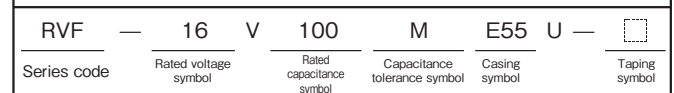
Outline Drawing



Coefficient of Frequency for Rated Ripple Current

Rated voltage (V) \ Frequency (Hz)	50	120	1k	10k-100k
10 to 16	0.80	1	1.15	1.25
50	0.80	1	1.35	1.50

Part numbering system (example : 16V10µF)



- Soldering conditions are described on page 15.
- Land pattern size are described on page 13.
- The taping specifications are described on page 16.

Standard Ratings

Rated voltage (V) \ Item	10		16		50	
	Case φD×L (mm)	Rated ripple current (mAmps)	Case φD×L (mm)	Rated ripple current (mAmps)	Case φD×L (mm)	Rated ripple current (mAmps)
1	—	—	—	—	4×5.3	7
2.2	—	—	—	—	5×5.3	11
3.3	—	—	—	—	6.3×5.3	16
4.7	—	—	4×5.3	10	6.3×5.3	19
10	5×5.3	15	5×5.3	16	8×10	41
22	6.3×5.3	25	6.3×5.3	28	—	—
33	6.3×5.3	31	8×10	50	—	—
47	8×10	54	8×10	60	—	—
100	8×10	79	8×10	87	—	—

(Note) Rated ripple current : 85°C, 120Hz.