

Chip Type, 105°C Use, Low ESR Capacitors

GREEN CAP

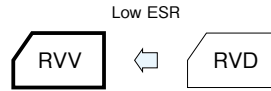
SMD

Low ESR

105°C
2000hours

Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105°C.



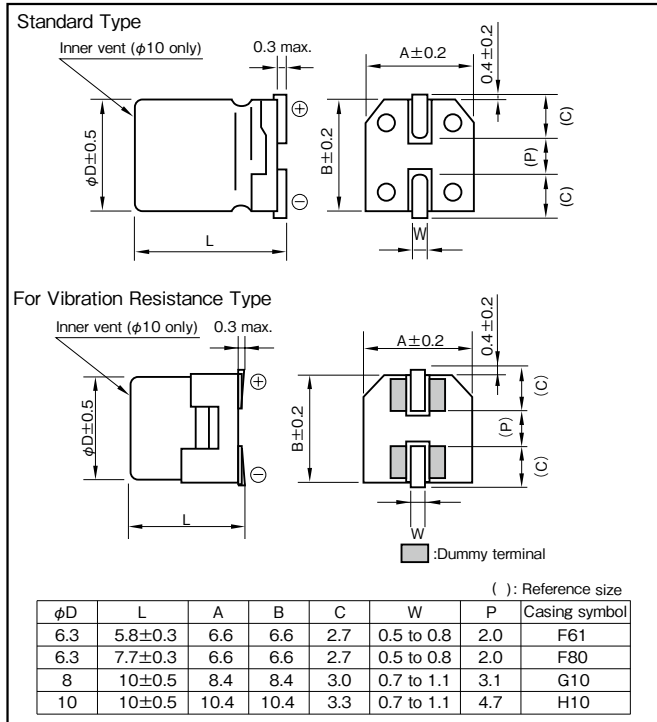
Marking color : Black print

Specifications

Item	Performance																																	
Category temperature range (°C)	-55 to +105																																	
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)																																	
Leakage current (µA) (max.)	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"> <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> </tr> </thead> <tbody> <tr> <td>tanδ (max.)</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table> <p>(20°C, 120Hz)</p>	Rated voltage (V)	6.3	10	16	25	35	50	tanδ (max.)	0.26	0.19	0.16	0.14	0.12	0.10																			
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Characteristics at high and low temperature	<table border="1"> <thead> <tr> <th rowspan="3">Impedance ratio (max.)</th> <th colspan="2">Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	Impedance ratio (max.)	Rated voltage (V)		6.3	10	16	25	35	50	Z-25°C/Z+20°C	2	2	2	2	2	2	2	Z-40°C/Z+20°C	3	3	3	3	3	3	3	Z-55°C/Z+20°C	4	4	4	3	3	3	3
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Endurance (105°C) (Applied ripple current)	<table border="1"> <tbody> <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 ±30% of initial value</td> </tr> <tr> <td>Tangent of the loss angle</td> <td>200% or less of initial specified value</td> </tr> </tbody> </table>	Test time	2000 hours	Leakage current	The initial specified value or less	Percentage of capacitance change	Within ±30% of initial value	Tangent of the loss angle	200% or less of initial specified value																									
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Shelf life (105°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1																																	
Applicable standards	JIS C5101 - 1,- 18 (IEC 60384 - 1,- 18)																																	

Outline Drawing

Unit : mm



Refer to individual page.

(Soldering conditions, Land pattern size, The taping specifications)

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50 · 60	120	1k	10k · 100k
Rated voltage (V)				
6.3 to 50	0.50	0.50	0.75	1

Part numbering system

Standard Type (example : 16V100µF)

RVV	—	16	V	101	M	F61	U	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

For Vibration Resistance Type (example : 25V470µF)

RTV	—	25	V	471	M	H10	U	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

Standard Ratings

Rated voltage (V)	Item	6.3				10				16			
		Case $\phi D \times L$ (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case $\phi D \times L$ (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case $\phi D \times L$ (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)
47	—	—	—	—	—	—	—	—	—	6.3 × 5.8	F61	0.26	300
100	6.3 × 5.8	F61	0.26	300	—	—	—	—	—	6.3 × 5.8	F61	0.26	300
										6.3 × 7.7	F80	0.16	600
220	6.3 × 5.8	F61	0.26	300	6.3 × 7.7	F80	0.16	600	6.3 × 7.7	F80	0.16	600	
330	6.3 × 7.7	F80	0.16	600	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	
470	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	
680	—	—	—	—	8 × 10	G10	0.09	850	10 × 10	H10	0.07	1190	
1000	8 × 10	G10	0.09	850	10 × 10	H10	0.07	1190	—	—	—	—	
1500	10 × 10	H10	0.07	1190	—	—	—	—	—	—	—	—	

Rated voltage (V)	Item	25				35				50			
		Case $\phi D \times L$ (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case $\phi D \times L$ (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)	Case $\phi D \times L$ (mm)	Casing symbol	ESR (Ω max.)	Rated ripple current (mA rms)
33	6.3 × 5.8	F61	0.26	300	6.3 × 5.8	F61	0.26	300	—	—	—	—	
47	6.3 × 5.8	F61	0.26	300	6.3 × 5.8	F61	0.26	300	—	—	—	—	
100	6.3 × 7.7	F80	0.16	600	6.3 × 7.7	F80	0.16	600	8 × 10	G10	0.18	670	
					8 × 10	G10	0.09	850					
220	8 × 10	G10	0.09	850	8 × 10	G10	0.09	850	8 × 10	G10	0.18	670	
330	8 × 10	G10	0.09	850	10 × 10	H10	0.07	1190	—	—	—	—	
470	10 × 10	H10	0.07	1190	—	—	—	—	—	—	—	—	

(Note) Rated ripple current : 105°C , 100kHz
ESR : 20°C , 100kHz