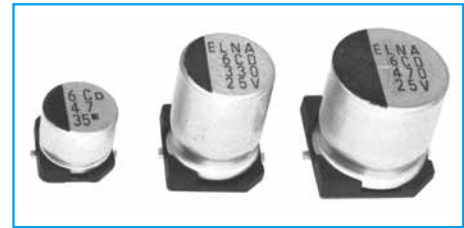
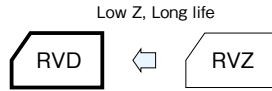


Chip Type, 105°C Use, Low Impedance, Long Life Capacitors

GREEN CAP SMD Low Z 105°C 2000hours Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105°C.
(6.3 to 50V 10.0L,10.5L:5000 hours)
(φ12.5x13.5L: 5000 hours)



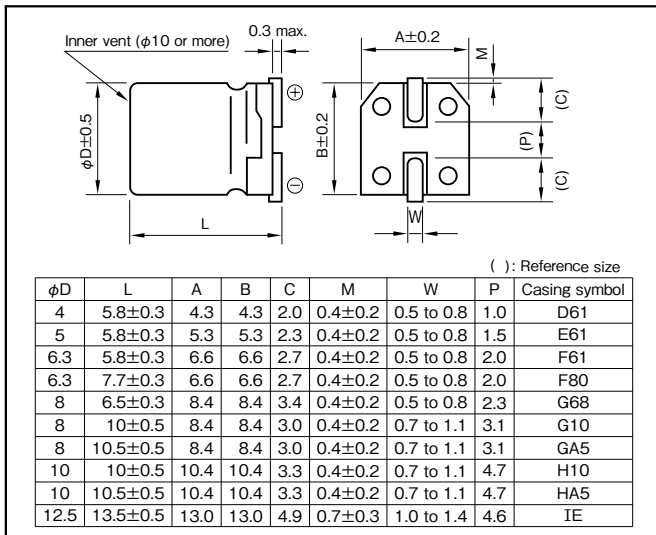
Marking color : Black print

Specifications

Item	Performance																																						
Category temperature range (°C)	-55 to +105																																						
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)																																						
Leakage current (μA)	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>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td> </tr> <tr> <th>tanδ (max.)</th> <td>0.26</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.08</td><td>0.08</td><td>0.07</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100	tanδ (max.)	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07																		
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100																													
tanδ (max.)	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07																														
0.02 is added to every 1000μF increase over 1000μF. (20°C,120Hz)																																							
Characteristics at high and low temperature	<table border="1"> <tr> <th>Rated voltage (V)</th> <td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td> </tr> <tr> <th rowspan="3">Impedance ratio (max.)</th> <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><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><td>3</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>8</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100	Impedance ratio (max.)	Z-25°C/Z+20°C	2	2	2	2	2	2	2	2	Z-40°C/Z+20°C	3	3	3	3	3	3	3	3	Z-55°C/Z+20°C	8	4	4	3	3	3	3	3
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100																													
	Impedance ratio (max.)	Z-25°C/Z+20°C	2	2	2	2	2	2	2	2																													
Z-40°C/Z+20°C		3	3	3	3	3	3	3	3																														
Z-55°C/Z+20°C		8	4	4	3	3	3	3	3																														
(120Hz)																																							
Endurance (105°C)	Test time	2000 hours (6.3 to 50V 10.0L,10.5L,φ12.5x13.5L : 5000 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 the initial specified value (6.3 to 50V 10.0L,10.5L,φ12.5x13.5L : 300% or less)																																					
Shelf life (105°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4																																						
Applicable standards	JIS C 5101-1 1998, -18 1999(IEC 60384-1 1992, -18 1993)																																						

Outline Drawing

Unit : mm



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

Coefficient of Frequency for Rated Ripple Current

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

Part numbering system

φ 10X10.5L or less (example : 16V100μF)

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

In the case of "for High Temperature Reflow" type, a series name is "RZB".

φ 12.5X13.5 (example : 16V1000μF)

RVD	—	16	V	102	M	IE	T	—	R5
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

If "For Vibration Resistance" type is required, please see the series RTD of page 89.

Standard Ratings

Rated voltage (V)	Item	6.3				10				16			
		Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current
		φD×L (mm)		(Ω max.)	(mArms)	φD×L (mm)		(Ω max.)	(mArms)	φD×L (mm)		(Ω max.)	(mArms)
10	—	—	—	—	—	—	—	—	—	4×5.8	D61	1.35	90
22	4×5.8	D61	1.35	90	4×5.8	D61	1.35	90	4×5.8	D61	1.35	90	
									5×5.8	E61	0.70	170	
33	—	—	—	—	4×5.8	D61	1.35	90	—	—	—	—	
					5×5.8	E61	0.70	170	—	—	—	—	
47	4×5.8	D61	1.35	90	—	—	—	—	5×5.8	E61	0.70	170	
	5×5.8	E61	0.70	170	—	—	—	—	6.3×5.8	F61	0.36	250	
100	5×5.8	E61	0.70	170	—	—	—	—	6.3×5.8	F61	0.36	250	
	6.3×5.8	F61	0.36	250	—	—	—	—	6.3×5.8	F61	0.36	250	
220	6.3×5.8	F61	0.36	250	6.3×7.7	F80	0.30	300	6.3×7.7	F80	0.30	300	
					8×6.5	G68	0.30	300	8×6.5	G68	0.30	300	
330	6.3×7.7	F80	0.30	300	8×10	G10	0.16	600	8×10	G10	0.16	600	
	8×6.5	G68	0.30	300	8×10	G10	0.16	600	8×10	G10	0.16	600	
470	8×10	G10	0.16	600	8×10	G10	0.16	600	8×10	G10	0.16	600	
680	—	—	—	—	8×10	G10	0.16	600	10×10	H10	0.090	850	
					8×10	G10	0.16	600	10×10.5	HA5	0.080	850	
1000	8×10	G10	0.16	600	10×10	H10	0.090	850	125×135	IE	0.054	1160	
					10×10.5	HA5	0.080	850	125×135	IE	0.054	1160	
1500	10×10	H10	0.090	850	125×135	IE	0.054	1160	125×135	IE	0.054	1160	
	10×10.5	HA5	0.080	850	125×135	IE	0.054	1160	125×135	IE	0.054	1160	
2200	125×135	IE	0.054	1160	125×135	IE	0.054	1160	—	—	—	—	

ALUMINUM

CHIP ALUMINUM

105°C

Rated voltage (V)	Item	25				35				50			
		Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current
		φD×L (mm)		(Ω max.)	(mArms)	φD×L (mm)		(Ω max.)	(mArms)	φD×L (mm)		(Ω max.)	(mArms)
4.7	—	—	—	—	4×5.8	D61	1.35	90	4×5.8	D61	2.7	60	
10	4×5.8	D61	1.35	90	4×5.8	D61	1.35	90	5×5.8	E61	1.5	90	
					5×5.8	E61	0.70	170	6.3×5.8	F61	0.86	170	
22	5×5.8	E61	0.70	170	5×5.8	E61	0.70	170	6.3×5.8	F61	0.86	170	
					5×5.8	E61	0.70	170	6.3×7.7	F80	0.66	195	
33	5×5.8	E61	0.70	170	6.3×5.8	F61	0.36	250	8×6.5	G68	0.63	200	
	6.3×5.8	F61	0.36	250	6.3×5.8	F61	0.36	250	6.3×7.7	F80	0.66	195	
47	6.3×5.8	F61	0.36	250	6.3×5.8	F61	0.36	250	8×6.5	G68	0.63	200	
					6.3×7.7	F80	0.30	300	8×10	G10	0.34	350	
100	6.3×7.7	F80	0.30	300	8×10	G10	0.16	600	8×10.5	GA5	0.32	350	
	8×6.5	G68	0.30	300	8×10	G10	0.16	600	10×10	H10	0.20	700	
220	8×10	G10	0.16	600	8×10	G10	0.16	600	10×10.5	HA5	0.18	700	
					10×10	H10	0.090	850	125×135	IE	0.12	900	
330	8×10	G10	0.16	600	10×10.5	HA5	0.080	850	125×135	IE	0.12	900	
					10×10	H10	0.090	850	125×135	IE	0.12	900	
470	10×10	H10	0.090	850	125×135	IE	0.054	1160	—	—	—	—	
	10×10.5	HA5	0.080	850	125×135	IE	0.054	1160	—	—	—	—	
680	125×135	IE	0.054	1160	125×135	IE	0.054	1160	—	—	—	—	
1000	125×135	IE	0.054	1160	—	—	—	—	—	—	—	—	

Rated voltage (V)	Item	63				80				100			
		Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current
		φD×L (mm)		(Ω max.)	(mArms)	φD×L (mm)		(Ω max.)	(mArms)	φD×L (mm)		(Ω max.)	(mArms)
4.7	5×5.8	E61	3.0	50	—	—	—	—	—	—	—	—	
10	6.3×5.8	F61	1.5	80	6.3×7.7	F80	2.4	60	—	—	—	—	
22	6.3×7.7	F80	1.2	120	8×10	G10	0.90	130	8×10	G10	1.30	130	
33	8×10	G10	0.65	250	8×10	G10	0.90	130	10×10	H10	0.70	200	
47	8×10	G10	0.65	250	10×10	H10	0.50	200	—	—	—	—	
68	8×10	G10	0.65	250	—	—	—	—	—	—	—	—	
100	10×10	H10	0.35	400	125×135	IE	0.18	550	—	—	—	—	
	125×135	IE	0.16	600	125×135	IE	0.18	550	—	—	—	—	
220	125×135	IE	0.16	600	—	—	—	—	—	—	—	—	

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

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.