

Chip Type, 105°C Use, Low Impedance Capacitors

GREEN CAP

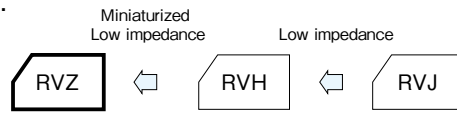
SMD

Low z

105°C
2000hours

Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105°C.
($\phi 8 \times 6.5L$ or less : 1000hours)
($\phi 12.5 \times 13.5L$: 5000hours)



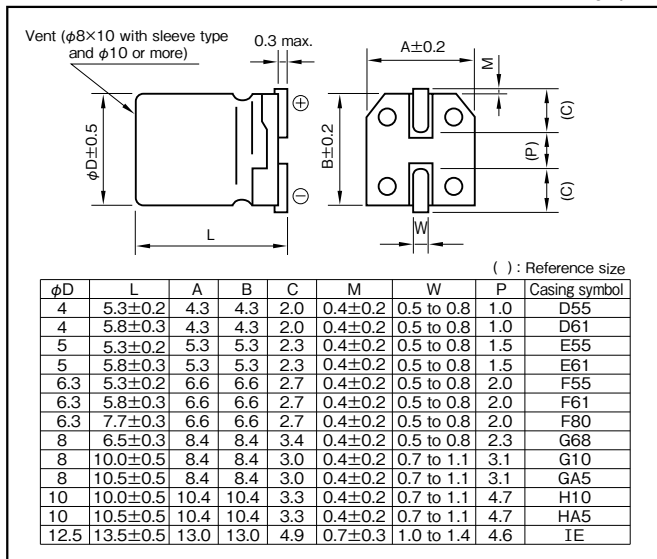
Marking color : Black print
There are also White print on a brown sleeve
($\phi 8 \times 10L - \phi 12.5 \times 13.5L$)

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"> <tr> <th>Rated voltage (V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <th>tanδ (max.)</th> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	tanδ (max.)	0.28	0.24	0.20	0.16	0.14					
	Rated voltage (V)	6.3	10	16	25	35												
tanδ (max.)	0.28	0.24	0.20	0.16	0.14													
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> </tr> <tr> <th rowspan="2">Impedance ratio (max.)</th> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	Z-55°C/Z+20°C	8	5	4	3
	Rated voltage (V)	6.3	10	16	25	35												
Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2													
	Z-55°C/Z+20°C	8	5	4	3													
(120Hz)																		
Endurance (105°C) (Applied ripple current)	Test time	1000 hours ($\phi 8 \times 6.5L$ or less) 2000 hours ($\phi 8 \times 10L$ to $\phi 10 \times 10.5L$) 5000 hours ($\phi 12.5 \times 13.5L$)																
	Leakage current	The initial specified value or less																
	Percentage of capacitance change	Within ±25% of initial value																
	Tangent of the loss angle	200% or less of initial specified value																
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



- 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

Rated voltage (V)	Frequency (Hz)			
	120	1k	10k	100k
6.3 to 35	0.50	0.75	0.90	1

Part numbering system

φ 8 × 6.5 and φ 6.3 or less (example : 6.3V330μF)

RVZ	—	6	V	331	M	G68	U	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

φ 8 × 10, φ 8 × 10.5 (example : 10V220μF)

RVZ	—	10	V	221	M	G10	Y1U	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

φ 10 × 10, φ 10 × 10.5 (example : 16V330μF)

RVZ	—	16	V	331	M	H10	EU	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

φ 12.5 × 13.5 (example : 25V680μF)

RVZ	—	25	V	681	M	IE	ET	—	R5
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 "RZA".
- * Please inquire sleeve type P/N.
- * If "For Vibration Resistance" type is required, please see the series RTZ of page 92.

Standard Ratings

Rated voltage (V) Rated capacitance (μF) Item	6.3				10				16				25				35			
	Case φD×L (mm)	Casing symbol	Impedance (Ω max.)	Rated ripple current (mA rms)	Case φD×L (mm)	Casing symbol	Impedance (Ω max.)	Rated ripple current (mA rms)	Case φD×L (mm)	Casing symbol	Impedance (Ω max.)	Rated ripple current (mA rms)	Case φD×L (mm)	Casing symbol	Impedance (Ω max.)	Rated ripple current (mA rms)	Case φD×L (mm)	Casing symbol	Impedance (Ω max.)	Rated ripple current (mA rms)
4.7	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	D55	3.20	65	4×5.3	D55	3.20	65
10	—	—	—	—	4×5.3	D55	3.20	65	4×5.3	D55	3.20	65	4×5.8	D61	1.80	80	5×5.3	E55	1.50	110
	—	—	—	—	—	—	—	—	—	—	—	—	5×5.3	E55	1.50	110	5×5.8	E61	0.76	150
15	—	—	—	—	—	—	—	—	4×5.8	D61	1.80	80	5×5.8	E61	0.76	150	5×5.8	E61	0.76	150
22	4×5.3	D55	3.20	65	4×5.8	D61	1.80	80	5×5.3	E55	1.50	110	5×5.8	E61	0.76	150	5×5.8	E61	0.76	150
	4×5.8	D61	1.80	80	5×5.3	E55	1.50	110	5×5.8	E61	0.76	150	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170
33	5×5.3	E55	1.50	110	5×5.3	E55	1.50	110	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170
	5×5.8	E61	0.76	150	5×5.8	E61	0.76	150	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230
47	5×5.3	E55	1.50	110	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170	6.3×5.8	F61	0.44	230
	5×5.8	E61	0.76	150	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×7.7	F80	0.34	280
68	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	8×6.5	G68	0.34	280
	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170	6.3×5.3	F55	0.85	170	6.3×7.7	F80	0.34	280	8×6.5	G68	0.34	280
100	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	8×6.5	G68	0.34	280	8×10.5	GA5	0.17	450
	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×7.7	F80	0.34	280	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670
150	6.3×5.8	F61	0.44	230	6.3×5.8	F61	0.44	230	6.3×7.7	F80	0.34	280	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670
	6.3×5.8	F61	0.44	230	6.3×7.7	F80	0.34	280	6.3×7.7	F80	0.34	280	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670
220	6.3×5.8	F61	0.44	230	6.3×7.7	F80	0.34	280	6.3×7.7	F80	0.34	280	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670
	6.3×7.7	F80	0.34	280	8×10.5	GA5	0.17	450	8×10.5	GA5	0.17	450	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670
330	6.3×7.7	F80	0.34	280	8×10.5	GA5	0.17	450	8×10.5	GA5	0.17	450	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670
	8×6.5	G68	0.34	280	10×10.5	HA5	0.09	670	10×10.5	HA5	0.09	670	10×10.5	HA5	0.09	670	12.5×13.5	IE	0.06	1100
470	8×10.5	GA5	0.17	450	8×10.5	GA5	0.17	450	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670	12.5×13.5	IE	0.06	1100
	10×10	H10	0.10	670	10×10	H10	0.10	670	10×10	H10	0.10	670	12.5×13.5	IE	0.06	1100	—	—	—	—
680	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670	10×10.5	HA5	0.09	670	12.5×13.5	IE	0.06	1100	—	—	—	—
	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670	12.5×13.5	IE	0.06	1100	—	—	—	—	—	—	—	—
1000	8×10.5	GA5	0.17	450	10×10.5	HA5	0.09	670	12.5×13.5	IE	0.06	1100	—	—	—	—	—	—	—	—
	10×10	H10	0.10	670	12.5×13.5	IE	0.06	1100	—	—	—	—	—	—	—	—	—	—	—	—
1500	10×10.5	HA5	0.09	670	12.5×13.5	IE	0.06	1100	—	—	—	—	—	—	—	—	—	—	—	—
2200	12.5×13.5	IE	0.06	1100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2700	12.5×13.5	IE	0.06	1100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

ALUMINUM

CHIP ALUMINUM

105°C