

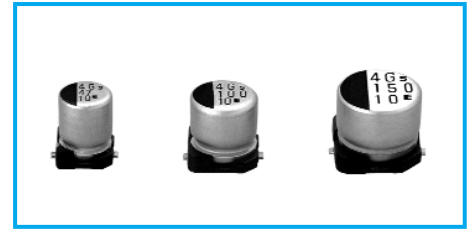
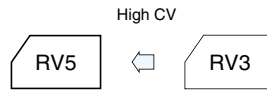
Chip Type Large Capacitance Capacitors

GREEN CAP

SMD

Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85°C.



Marking color : Black print (ø3x5.3L – ø8x10L)
White print on a brown sleeve (ø10x10L)

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)	Rated voltage (V)	6.3	10	16	25	35	50	63	100		
	tanδ (max.)	0.35	0.32	0.28	0.18	0.14	0.12	0.12	0.12	(20°C, 120Hz)	
Characteristics at high and low temperature	Impedance ratio (max.)	Rated voltage (V)		6.3	10	16	25	35	50	63	100
		Z-25°C / Z+20°C	4	3	2	2	2	2	2	2	(120Hz)
		Z-40°C / Z+20°C	10	8	6	4	3	3	3	3	
Endurance (85°C) (Applied ripple current)	Test time		2000 hours (ø 3:1000 hours)								
	Leakage current		The initial specified value or less								
	Percentage of capacitance change		Within ±30% of initial value								
	Tangent of the loss angle		300% or less of the initial specified value								
Shelf life (85°C)	Test time : 1000 hours; other items are the same as those for the endurance. Voltage application treatment : According to JIS C5101-1										
Applicable standards	JIS C5101-1, -18 1998 (IEC 60384-1 1992, -18 1993)										

Outline Drawing

Unit: mm

() : Reference size

φ D	L	A	B	C	W	P	Casing symbol
3	5.3±0.2	3.3	3.3	1.5	0.45 to 0.75	0.8	B55
4	5.3±0.2	4.3	4.3	2.0	0.5 to 0.8	1.0	D55
5	5.3±0.2	5.3	5.3	2.3	0.5 to 0.8	1.5	E55
6.3	5.3±0.2	6.3	6.3	2.7	0.5 to 0.8	2.0	F55
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F80
8	6.5±0.3	8.4	8.4	3.4	0.5 to 0.8	2.3	G68
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	G10
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	H10

Coefficient of Frequency for Rated Ripple Current

Rated voltage(V)	Frequency(Hz)			
	50 · 60	120	1k	10k · 100k
6.3 to 16	0.80	1	1.15	1.25
25 to 35	0.80	1	1.25	1.40
50 to 63	0.80	1	1.35	1.50
100	0.70	1	1.35	1.50

Part numbering system (example: 16V470µF)

RV5	—	16	V	471	M	G10	□	U	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Additional symbol		Taping symbol

- Land pattern size is described on page 10.
- The taping specifications are described on page 11.
- Soldering conditions are described on page 28.

• The standard ratings are described on the next page.

Standard Ratings

Rated voltage (V)	Item	6.3			10			16			25			35			50			63			100		
		Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms	Case ø D(mm)	Casing symbol	Rated ripple current mA Arms
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	—	—	—	—	—	—	3x5.3	B55	18	3x5.3	B55	16	4x5.3	D55	24	5x5.3	E55	30	6.3x5.3	F55	32	—	—	—	
22	3x5.3	B55	21	3x5.3	B55	20	—	—	—	4x5.3	D55	24	5x5.3	E55	41	6.3x5.3	F55	47	6.3x7.7	F80	60	—	—	—	
																			8x6.5	G68	62	—	—	—	
33	—	—	—	—	—	—	4x5.3	D55	32	5x5.3	E55	47	—	—	—	8x6.5	G68	83	—	—	—	8x10	G10	94	
47	4x5.3	D55	34	4x5.3	D55	33	5x5.3	E55	52	—	—	—	6.3x5.3	F55	54	6.3x7.7	F80	85	8x10	G10	139	10x10	H10	189	
100	5x5.3	E55	55	5x5.3	E55	54	6.3x5.3	F55	70	6.3x7.7	F80	120	6.3x7.7	F80	120	8x10	G10	252	10x10	H10	226	—	—	—	
150	—	—	—	6.3x5.3	F55	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
220	6.3x5.3	F55	88	6.3x7.7	F80	173	6.3x7.7	F80	162	—	—	—	8x10	G10	260	—	—	—	—	—	—	—	—	—	
				8x6.5	G68	175	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
330	6.3x7.7	F80	188	—	—	—	—	—	—	8x10	G10	300	10x10	H10	360	—	—	—	—	—	—	—	—	—	
	8x6.5	G68	190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
470	—	—	—	8x10	G10	310	8x10	G10	307	10x10	H10	400	—	—	—	—	—	—	—	—	—	—	—	—	
680	—	—	—	—	—	—	10x10	H10	380	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
820	8x10	G10	320	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1000	—	—	—	10x10	H10	454	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1500	10x10	H10	489	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

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