Chip Type, 105°C Use, Large Capacitance Capacitors

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

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105℃.
  (φ12.5×13.5L : 5000 hours at 105℃)

RVJ
↑ High temperature
RV

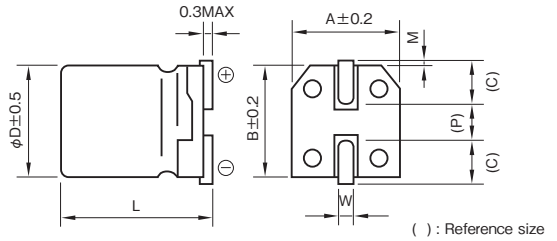
Marking color : Black print (φ8×6.5L)
White print on a brown sleeve (φ8×10L – φ12.5×13.5L)

Specifications

Item	Performance
Category temperature range (℃)	−55 to +105
Tolerance at rated capacitance (%)	±20 (20℃,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℃)
Tangent of loss angle (tanδ)	Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 tanδ (max.): 0.30 / 0.24 / 0.22 / 0.16 / 0.13 / 0.12 / 0.11 / 0.10 (20℃,120Hz)
Characteristics at high and low temperature	Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Impedance ratio (max.) Z−25℃/Z+20℃: 4 / 3 / 2 / 2 / 2 / 2 / 2 / 2 Impedance ratio (max.) Z−40℃/Z+20℃: 8 / 5 / 4 / 3 / 3 / 3 / 3 / 3 (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: 2000 hours (φ12.5×13.5L : 5000 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 (105℃)	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 C 5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)

Outline Drawing

Unit : mm



φD	L	A	B	C	M	W	P	Casing symbol
8	6.5±0.3	8.4	8.4	3.4	0.4±0.2	0.5 to 0.8	2.3	G68
8	10±0.5	8.4	8.4	3.0	0.4±0.2	0.7 to 1.1	3.1	G10
10	10±0.5	10.4	10.4	3.3	0.4±0.2	0.7 to 1.1	4.7	H10
12.5	13.5±0.5	13.0	13.0	4.9	0.7±0.3	1.0 to 1.4	4.6	IE

- Soldering conditions are described on page 13.
- Land pattern size are described on page 11.
- The taping specifications are described on page 14.

Coefficient of Frequency for Rated Ripple Current

φ8,φ10

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

φ12.5

Rated capacitance(μF) \ Frequency (Hz)	120	1k	10k	100k
47	0.50	0.76	0.87	1
100 to 220	0.70	0.85	0.90	1
330 to 1000	0.80	0.93	0.98	1

Part numbering system

φ8,φ10(16V470μF)

RVJ	—	16	V	471	M	H10	U	—	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

φ12.5(10V1000μF)

RVJ	—	10	V	102	M	IE	T	—	R5
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

Standard Ratings

Rated voltage (V) / Item: Rated capacitance (μF)	6.3			10			16			25			35			50			63			100		
	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)	Case φD (mm)	Casing symbol	Rated ripple current (mArms)
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	67
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	110	8×10	G10	99	10×10	H10	133
33	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	110	8×10	G10	178	10×10	H10	160	10×10	H10	133
47	—	—	—	—	—	—	—	—	—	8×6.5	G68	110	8×6.5 8×10	G68 G10	110 178	8×10	G10	178	10×10	H10	160	12.5×13.5	IE	475*
100	—	—	—	8×6.5	G68	110	8×6.5 8×10	G68 G10	110 178	8×10	G10	178	10×10	H10	324	8×10 10×10	G10 H10	178 324	12.5×13.5	IE	577*	—	—	—
220	8×10	G10	178	8×10	G10	178	10×10	H10	324	10×10	H10	324	10×10	H10	324	12.5×13.5	IE	655*	—	—	—	—	—	—
330	8×10	G10	178	10×10	H10	324	10×10	H10	324	10×10	H10	324	12.5×13.5	IE	747*	—	—	—	—	—	—	—	—	—
470	10×10	H10	324	10×10	H10	324	10×10	H10	324	12.5×13.5	IE	747*	12.5×13.5	IE	747*	—	—	—	—	—	—	—	—	—
1000	10×10 12.5×13.5	H10 IE	324 747*	10×10 12.5×13.5	H10 IE	324 747*	12.5×13.5	IE	747*	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.

(Note) Rated ripple current : 105℃, 120Hz
(Note＊) Rated ripple current : 105℃, 100kHz