

Chip Type, 105°C Use, Large Capacitance Capacitors

GREEN
CAP

SMD

105°C
2000hoursAnti-
cleaning
solvent

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

RVJ

High temperature

RV



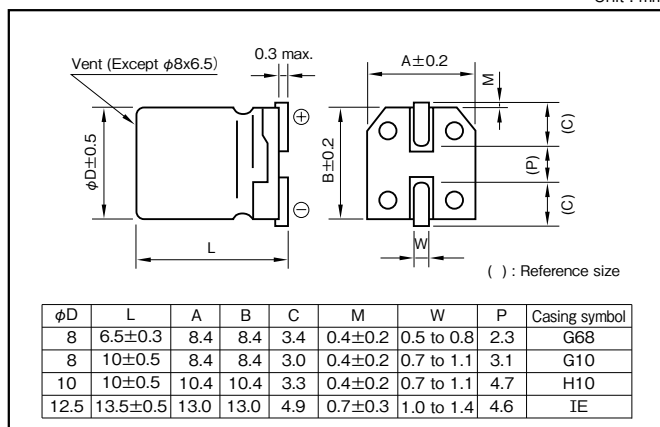
Marking color : Black print ($\phi 8 \times 6.5L$)
White print on a brown sleeve ($\phi 8 \times 10L$ - $\phi 12.5 \times 13.5L$)

Specifications

Item	Performance								
Category temperature range (°C)	-55 to +105								
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)								
Leakage current (μA)	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.)	0.30	0.24	0.22	0.16	0.13	0.12	0.11	0.10 (20°C,120Hz)
Characteristics at high and low temperature	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	2	2	2
		Z-40°C/Z+20°C	8	5	4	3	3	3	3
Endurance (105°C) (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°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

 $\phi 8, \phi 10$

Frequency (Hz)	50 · 60	120	1k	10k · 100k
Rated voltage (V)				
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

 $\phi 12.5$

Frequency (Hz)	120	1k	10k	100k
Rated capacitance (μF)				
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

 $\phi 8, \phi 10$ (example : 16V470 μF)

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

 $\phi 12.5$ (example : 10V1000 μF)

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	6.3			10			16			25			35			50			63			100		
		Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)	Case	Casing symbol	Rated ripple current (mA)
		φD×L(mm)			φD×L(mm)			φD×L(mm)			φD×L(mm)			φD×L(mm)			φD×L(mm)			φD×L(mm)			φD×L(mm)		
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	G68	110	8×10	G10	178	10×10	H10	160	125×135	IE	475*	
100	—	—	—	8×6.5	G68	110	8×6.5	G68	110	8×10	G10	178	10×10	H10	324	8×10	G10	178	125×135	IE	577*	—	—	—	
							8×10	G10	178							10×10	H10	324							
220	8×10	G10	178	8×10	G10	178	10×10	H10	324	10×10	H10	324	10×10	H10	324	125×135	IE	655*	—	—	—	—	—	—	
330	8×10	G10	178	10×10	H10	324	10×10	H10	324	10×10	H10	324	125×135	IE	747*	—	—	—	—	—	—	—	—	—	
470	10×10	H10	324	10×10	H10	324	10×10	H10	324	125×135	IE	747*	125×135	IE	747*	—	—	—	—	—	—	—	—	—	
1000	10×10	H10	324	10×10	H10	324	125×135	IE	747*	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	125×135	IE	747*	125×135	IE	747*				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

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.