

Chip Type 125°C Capacitors

GREEN CAP

SMD

125°C
1250hours

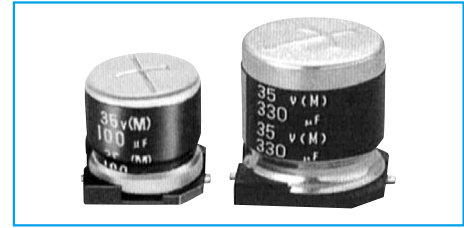
105°C
5000hours

Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 1250 hours at 125°C.
($\phi 8$: 1000 hours)
($\phi 12.5$: 5000 hours)
- Guarantees 5000 hours at 105°C.
($\phi 8$: 4000 hours)



High temperature



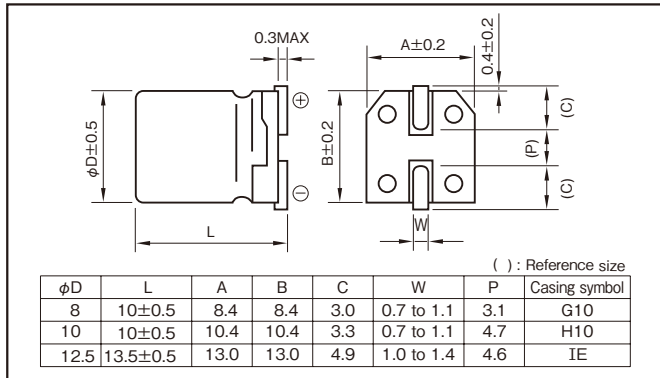
Marking color $\phi 8, \phi 10$: Gold print on brown sleeve
 $\phi 12.5$: White print on black sleeve

Specifications

Item	Performance						
Category temperature range (°C)	-40 to +125						
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)						
Leakage current (µA)	Less than 0.02CV 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)	10	16	25	35	50	63
	tanδ (max.)	0.28	0.26	0.24	0.20	0.19	0.18
Characteristics at high and low temperature	Impedance ratio (max.)	Z-25°C/Z+20°C		Z-40°C/Z+20°C			
		10	16	25	35	50	63
		3	3	3	3	3	3
Endurance (Applied ripple current)	Test temp.	125°C			105°C		
	Test time	$\phi 8$: 1000h, $\phi 10$: 1250h, $\phi 12.5$: 5000h			$\phi 8$: 4000h, $\phi 10$: 5000h		
	Percentage of capacitance change	Within ±30% of initial value					
	Tangent of the loss angle	300% or less of the initial specified value					
Shelf life	Test temp.	125°C			105°C		
	Test time	500 h			1000h		
	Percentage of capacitance change	Within ±20% of initial value					
	Tangent of the loss angle	200% or less of the initial specified value					
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)						

Outline Drawing

Unit : mm



- Soldering conditions are described on page 11.
- Land pattern size are described on page 12.
- The taping specifications are described on page 13.

Standard Ratings

Rated voltage (V)	10				16				25				35				50				63			
	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current	Case	Casing symbol	Impedance	Rated ripple current
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	0.80	38	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10×10	H10	0.65	45	8×10	G10	1.00	33
33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	0.80	40	—	—	—	—
47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	G10	0.68	55	10×10	H10	0.67	48
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10×10	H10	0.55	70	10×10	H10	0.60	58
220	8×10	G10	0.68	60	—	—	—	—	—	—	—	—	—	—	—	—	125×135	IE	0.136	509	125×135	IE	0.176	447
330	10×10	H10	0.55	111	10×10	H10	0.55	107	—	—	—	—	—	—	—	—	125×135	IE	0.105	579	125×135	IE	0.136	509
470	125×135	IE	0.105	579	—	—	—	—	—	—	—	—	—	—	—	—	125×135	IE	0.105	579	—	—	—	—
680	—	—	—	—	125×135	IE	0.105	579	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1000	125×135	IE	0.105	579	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Impedance : 20°C, 100kHz ; Rated ripple current : 125°C, 100kHz ; ESR : 20°C, 120Hz

Coefficient of Frequency for Rated Ripple Current

Rated voltage (V)	Frequency (Hz)			
	120	1k	10k	100k
10 to 63	0.77	0.88	0.96	1

Rated capacitance (µF)	Frequency (Hz)			
	120	1k	10k	100k
100	0.40	0.75	0.90	1
220 to 330	0.50	0.85	0.95	1
470 to 1000	0.60	0.88	0.96	1

Part numbering system

$\phi 8, \phi 10$ (16V220µF)

RVK — 16 V 221 M H10 □ U — □

Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Additional symbol Taping symbol

$\phi 12.5$ (10V470µF)

RVK — 10 V 471 M IE □ T — R5

Series code Rated voltage symbol Rated capacitance symbol Capacitance tolerance symbol Casing symbol Additional symbol Taping symbol

NOTE

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