

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°C.

RVJ

High temperature

RV



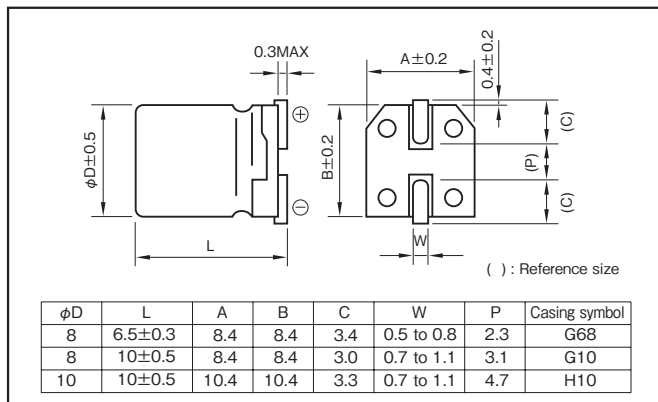
Marking color : Black print (φ8×6.5L)
White print on a brown sleeve (φ8×10L . φ10×10L)

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	2
		Z-40°C/Z+20°C	8	5	4	3	3	3	3	3
Endurance (105°C) (Applied ripple current)	Test time	2000 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 : 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



Coefficient of Frequency for Rated Ripple Current

Frequency (Hz) Rated voltage (V)	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)

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

- 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)	6.3				10				16				25				35				50				63				100			
	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current
Rated capacitance (μF)	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms	φD (mm)		Ω	mArms
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	9.1	110	8×10	G10	8.3	99	10×10	H10	7.5	133
33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	6.5	110	8×10	G10	6.0	178	10×10	H10	5.5	160	10×10	H10	5.0	133
47	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	5.7	110	8×6.5	G68	4.6	110	8×10	G10	4.2	178	10×10	H10	3.9	160	—	—	—	—
100	—	—	—	—	8×6.5	G68	4.3	110	8×6.5	G68	3.6	110	8×10	G10	2.7	178	10×10	H10	2.2	324	8×10	G10	2.0	178	10×10	H10	2.0	324	—	—	—	—
220	8×10	G10	2.3	178	8×10	G10	2.0	178	10×10	H10	1.7	324	10×10	H10	1.2	324	10×10	H10	0.98	324	—	—	—	—	—	—	—	—	—	—	—	—
330	8×10	G10	1.5	178	10×10	H10	1.3	324	10×10	H10	1.1	324	10×10	H10	0.80	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
470	10×10	H10	1.0	324	10×10	H10	0.92	324	10×10	H10	0.78	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1000	10×10	H10	0.50	324	10×10	H10	0.40	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C, 120Hz ; ESR : 20°C, 120Hz

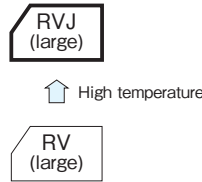
NOTE

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

Chip Type, 105°C Use, Large Capacitance Capacitors

SMD 105°C 5000hours Anti-cleaning solvent

- Surface mount device.
- Supplied with taping.
- Guarantees 5000 hours at 105°C.



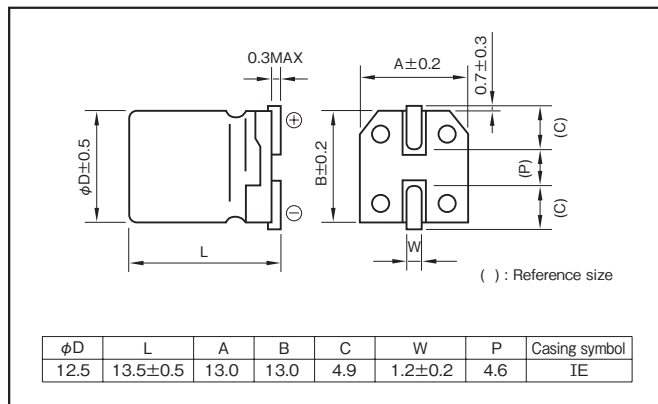
Marking color : White print on a brown sleeve

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 (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	0.26	0.22	0.16	0.13	0.12	0.11	0.10
	0.02 is added to every 1000μF increase over 1000μF. (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	2
		Z−40°C/Z+20°C	8	5	4	3	3	3	3	3
(120Hz)										
Endurance (105°C) (Applied ripple current)	Test time		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 : 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



Coefficient of Frequency for Rated Ripple Current

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 (example : 10V1000μF)

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

- 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)	Item	6.3				10				16				25				35				50				63				100			
		Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}	Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}	Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}	Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}	Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}	Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}	Case	Casing symbol	Imp. Ω	Rated ripple current mA _{RMS}				
		φD (mm)				φD (mm)				φD (mm)				φD (mm)				φD (mm)				φD (mm)				φD (mm)							
		Rated capacitance (μF)																															
47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.5×13.5	IE	0.176	577	—	—	—					
220	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
330	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
470	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
1000	12.5×13.5	IE	0.105	747	12.5×13.5	IE	0.105	747	12.5×13.5	IE	0.105	747	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					

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