

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.

Large Capacitance



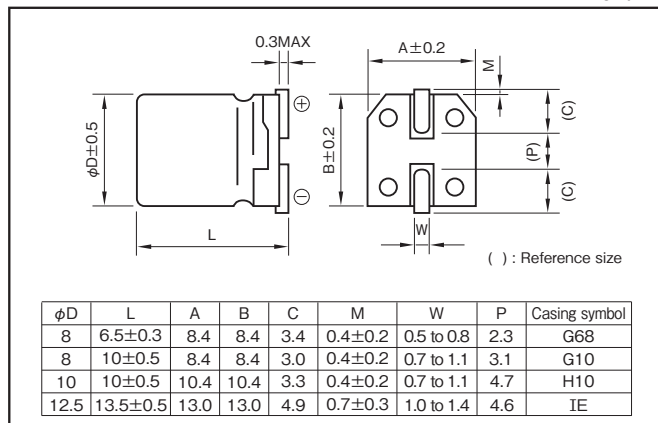
Marking color : Black print (φ8×6.5L)
White print on a brown sleeve (φ8×10L - φ12.5×13.5L)

Specifications

Item	Performance									
Category temperature range (°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.)		0.28	0.24	0.20	0.14	0.12	0.10	0.10	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
(120Hz)										
Endurance (85°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 (85°C)	Test time : 1000hours; 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



- 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

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

φ12.5

Frequency (Hz)	120	1k	10k	100k
Rated capacitance (μF)				
100 to 220	1	1.21	1.29	1.43
330 to 1000	1	1.16	1.23	1.25
1500 to 2200	1	1.06	1.11	1.11

Part numbering system

φ10 (10V1000μF)

RV	—	10	V	102	M	H10	U	□
Series code	Rated voltage symbol	Rated capacitance symbol	Capacitance tolerance symbol	Capacitance tolerance symbol	Casing symbol	Taping symbol		

φ12.5 (10V1500μF)

RV	—	10	V	152	M	IE	T	R5
Series code	Rated voltage symbol	Rated capacitance symbol	Capacitance tolerance symbol	Capacitance tolerance symbol	Casing symbol	Taping symbol		

Standard Ratings

Rated voltage (V)	6.3			10			16			25			35			50			63			100		
Item	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)	Case φD (mm)	Casing symbol	Rated ripple current (mA)
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	155	8×10	G10	139	10×10	H10	189
33	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	G68	155	8×6.5	G68	155	8×10	G10	139	10×10	H10	189
47	—	—	—	—	—	—	—	—	—	8×6.5	G68	155	8×6.5	G68	155	8×10	G10	252	10×10	H10	226	—	—	—
68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10×10	H10	226	—	—	—
100	—	—	—	8×6.5	G68	155	8×6.5	G68	155	8×6.5	G68	155	8×10	G10	252	10×10	H10	458	10×10	H10	226	12.5×13.5	IE	242
220	8×6.5	G68	155	8×6.5	G68	155	8×10	G10	252	8×10	G10	252	10×10	H10	458	—	—	—	12.5×13.5	IE	343	—	—	—
330	8×6.5	G68	155	8×10	G10	252	8×10	G10	252	10×10	H10	458	—	—	—	12.5×13.5	IE	451	—	—	—	—	—	—
470	8×10	G10	252	10×10	H10	458	8×10	G10	252	10×10	H10	458	12.5×13.5	IE	460	—	—	—	—	—	—	—	—	—
820	—	—	—	—	—	—	—	—	—	12.5×13.5	IE	552	—	—	—	—	—	—	—	—	—	—	—	—
1000	10×10	H10	458	10×10	H10	458	12.5×13.5	IE	521	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	12.5×13.5	IE	580	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2200	12.5×13.5	IE	651	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

NOTE

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