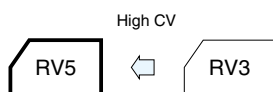


Chip Type 85°C High CV Capacitors

GREEN CAP SMD Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85°C.



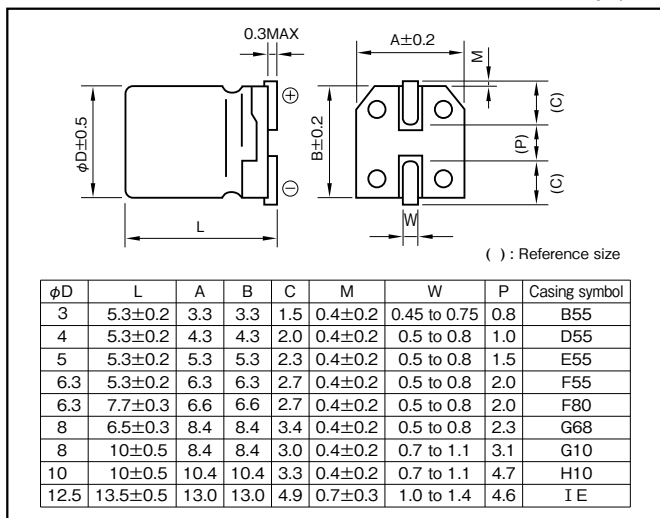
Marking color : Black print

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)	4	6.3	10	16	25	35	50	63	100		
	tanδ (max.)	Refer to following page. (20°C, 120Hz)										
Characteristics at high and low temperature	Impedance ratio (max.)	Rated voltage (V)		4	6.3	10	16	25	35	50	63	100
		Z-25°C/Z+20°C	7	4	3	2	2	2	2	2	2	2
		Z-40°C/Z+20°C	17	10	8	6	4	3	3	3	3	3
Endurance (85°C) (Applied ripple current)	Test time	2000 hours (φ3 : 1000 hours)										
	Leakage current	The initial specified value or less										
	Percentage of capacitance change	Within ±30% of initial value										
	Tangent of the loss angle	200% or less of the initial specified value										
Shelf life (85°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 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

Rated voltage (V)	Frequency (Hz)			
	50 · 60	120	1k	10k · 100k
4 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)

RV5	—	16	V	471	M	G10	U	□
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

Standard Ratings

Rated voltage(V) Rated capacitance(μF)	4				6.3				10				16				25			
	Item φD×L (mm)	Case Symbol	Casing tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)
4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	4×5.3	D55	0.24	23	3×5.3	B55	0.22	18	3×5.3	B55	0.18	11
22	3×5.3	B55	0.42	14	3×5.3	B55	0.35	21	3×5.3	B55	0.32	20	4×5.3	D55	0.20	26	4×5.3	D55	0.18	23
33	4×5.3	D55	0.42	31	4×5.3	D55	0.35	28	4×5.3	D55	0.32	32	4×5.3	D55	0.28	30	4×5.3	D55	0.18	24
47	4×5.3	D55	0.42	37	4×5.3	D55	0.35	34	4×5.3	D55	0.32	33	5×5.3	E55	0.20	44	5×5.3	E55	0.18	43
100	5×5.3	E55	0.42	63	5×5.3	E55	0.35	58	5×5.3	E55	0.32	54	5×5.3	E55	0.28	52	6.3×5.3	F55	0.18	75
150	-	-	-	-	6.3×5.3	F55	0.35	83	6.3×5.3	F55	0.32	79	6.3×5.3	F55	0.20	70	6.3×7.7	F80	0.18	124
220	6.3×5.3	F55	0.42	110	6.3×5.3	F55	0.35	88	6.3×7.7	F80	0.32	173	6.3×7.7	F80	0.28	162	8×10	G10	0.14	252
330	-	-	-	-	6.3×7.7	F80	0.35	188	8×10	G10	0.24	230	8×10	G10	0.20	260	8×10	G10	0.18	300
470	-	-	-	-	8×10	G10	0.28	262	8×10	G10	0.32	310	8×10	G10	0.28	307	10×10	H10	0.14	458
680	-	-	-	-	-	-	-	-	-	-	-	-	10×10	H10	0.28	380	-	-	-	-
820	-	-	-	-	8×10	G10	0.35	320	-	-	-	-	-	-	-	-	12.5×13.5	IE	0.14	552
1000	-	-	-	-	10×10	H10	0.28	458	10×10	H10	0.24	454	12.5×13.5	IE	0.20	521	-	-	-	-
1500	-	-	-	-	10×10	H10	0.35	489	12.5×13.5	IE	0.24	560	-	-	-	-	-	-	-	-
2200	-	-	-	-	12.5×13.5	IE	0.28	651	-	-	-	-	-	-	-	-	-	-	-	-

Rated voltage(V) Rated capacitance(μF)	35				50				63				100			
	Item φD×L (mm)	Case Symbol	Casing tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)	Case φD×L (mm)	Casing Symbol	tan δ	Rated ripple current (mAmps)
0.22	-	-	-	-	3×5.3	B55	0.12	2	-	-	-	-	-	-	-	
0.33	-	-	-	-	4×5.3	D55	0.10	5	-	-	-	-	-	-	-	
0.47	-	-	-	-	3×5.3	B55	0.12	4	-	-	-	-	-	-	-	
1	-	-	-	-	4×5.3	D55	0.10	7	-	-	-	-	-	-	-	
2.2	3×5.3	B55	0.14	8	3×5.3	B55	0.12	6	-	-	-	-	-	-	-	
3.3	3×5.3	B55	0.14	9	4×5.3	D55	0.10	10	-	-	-	-	-	-	-	
4.7	3×5.3	B55	0.14	13	3×5.3	B55	0.12	9	4×5.3	D55	0.12	12	-	-	-	
10	4×5.3	D55	0.14	27	4×5.3	D55	0.10	19	5×5.3	E55	0.12	20	-	-	-	
22	5×5.3	E55	0.12	34	5×5.3	E55	0.10	26	6.3×5.3	F55	0.12	32	8×10	G10	0.10	94
33	6.3×5.3	F55	0.14	67	6.3×5.3	F55	0.12	47	6.3×7.7	F80	0.12	60	8×10	G10	0.12	94
47	6.3×5.3	F55	0.14	54	6.3×7.7	F80	0.12	82	8×10	G10	0.10	139	8×10	G10	0.12	94
100	6.3×7.7	F80	0.14	120	8×10	G10	0.10	252	10×10	H10	0.12	226	10×10	H10	0.10	189
220	8×10	G10	0.14	260	10×10	H10	0.12	458	10×10	H10	0.10	226	12.5×13.5	IE	0.10	242
330	10×10	H10	0.14	360	12.5×13.5	IE	0.10	451	12.5×13.5	IE	0.10	343	-	-	-	-
470	12.5×13.5	IE	0.12	451	-	-	-	-	-	-	-	-	-	-	-	-

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