Chip Type 105°C Standard Capacitors

GREEN CAP | SMD | 105°C 1000hours | Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 1000 hours at 105°C.

RVS

High temperature

RV2

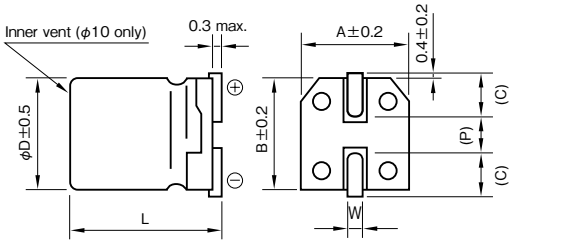
Marking color : Black print

Specifications

Item	Performance
Category temperature range (℃)	−55 to +105
Tolerance at rated capacitance (%)	±20 (20℃,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℃)
Tangent of loss angle (tanδ)	Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 tanδ (max.): 0.30 / 0.26 / 0.22 / 0.16 / 0.13 / 0.12 (20℃,120Hz)
Characteristics at high and low temperature	Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 Impedance ratio (max.) Z−25℃/Z+20℃: 4 / 3 / 2 / 2 / 2 / 2 Impedance ratio (max.) Z−40℃/Z+20℃: 8 / 5 / 4 / 3 / 3 / 3 (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: 1000 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℃)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)

Outline Drawing

Unit : mm



( ): Reference size

φD	L	A	B	C	W	P	Casing symbol
4	5.3±0.2	4.3	4.3	2.0	0.5 to 0.8	1.0	D55
5	5.3±0.2	5.3	5.3	2.3	0.5 to 0.8	1.5	E55
6.3	5.3±0.2	6.6	6.6	2.7	0.5 to 0.8	2.0	F55
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F80
8	6.5±0.3	8.4	8.4	3.4	0.5 to 0.8	2.3	G68
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	G10
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	H10
10	10.5±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	HA5

- 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

Rated voltage (V) \ Frequency (Hz)	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	0.80	1	1.35	1.50

Part numbering system (example : 16V47μF)

RVS	—	16	V	470	M	F55	U	—	⬚
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping symbol

Standard Ratings

Rated voltage (V) / Item / Rated capacitance (μF)	6.3			10			16			25			35			50		
	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current
	φD × L(mm)	(Ω)	(mArms)	φD × L(mm)	(Ω)	(mArms)	φD × L(mm)	(Ω)	(mArms)	φD × L(mm)	(Ω)	(mArms)	φD × L(mm)	(Ω)	(mArms)	φD × L(mm)	(Ω)	(mArms)
0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 × 5.3	905	3
0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 × 5.3	603	4
0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 × 5.3	424	5
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 × 5.3	199	7
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 × 5.3	91	10
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4 × 5.3	60	12
4.7	—	—	—	—	—	—	—	—	—	4 × 5.3	57	12	4 × 5.3	46	14	5 × 5.3	42	17
10	—	—	—	4 × 5.3	43	15	4 × 5.3	36	16	5 × 5.3	27	21	5 × 5.3	22	23	6.3 × 5.3	20	26
22	4 × 5.3	23	21	5 × 5.3	20	25	5 × 5.3	17	28	6.3 × 5.3	12	36	6.3 × 5.3	10	50	8 × 6.5	9.0	51
33	5 × 5.3	15	30	5 × 5.3	13	31	6.3 × 5.3	11	40	6.3 × 5.3	8.0	44	8 × 6.5	6.5	59	6.3 × 7.7	6.0	60
47	5 × 5.3	11	36	6.3 × 5.3	9.2	43	6.3 × 5.3	7.8	47	8 × 6.5	5.6	66	—	—	—	6.3 × 7.7	4.2	63
100	6.3 × 5.3	5.0	61	6.3 × 5.3	4.3	60	6.3 × 5.3	3.6	60	6.3 × 7.7	2.7	91	6.3 × 7.7	2.2	84	8 × 10	2.0	140
150	—	—	—	—	—	—	6.3 × 7.7	2.4	105	8 × 10	1.8	140	8 × 10	1.4	155	10 × 10	1.3	180
220	8 × 6.5	2.3	102	6.3 × 7.7	2.0	105	6.3 × 7.7	1.7	105	8 × 10	1.2	155	8 × 10	0.98	190	10 × 10.5	0.91	220
330	6.3 × 7.7	1.5	105	8 × 10	1.3	195	8 × 10	1.1	195	8 × 10	0.80	190	10 × 10.5	0.65	300	—	—	—
470	8 × 10	1.1	210	8 × 10	0.92	210	8 × 10	0.78	230	10 × 10	0.57	300	—	—	—	—	—	—
680	8 × 10	0.73	210	10 × 10	0.63	310	10 × 10	0.54	310	—	—	—	—	—	—	—	—	—
1000	8 × 10	0.50	210	10 × 10	0.43	310	—	—	—	—	—	—	—	—	—	—	—	—
1500	10 × 10	0.33	310	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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