

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.



High temperature



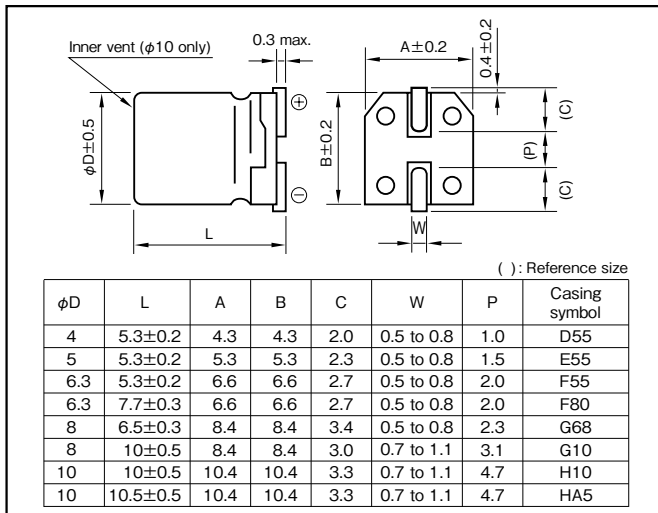
Marking color : Black print

Specifications

Item	Performance							
Category temperature range (°C)	-55 to +105							
Tolerance at rated capacitance (%)	±20 (20°C, 120Hz)							
Leakage current (μA) (max.)	0.01 CV 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	
	tanδ (max.)	0.30	0.26	0.22	0.16	0.13	0.12	
Characteristics at high and low temperature	Rated voltage (V)	6.3	10	16	25	35	50	
	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	2	2
		Z-40°C/Z+20°C	8	5	4	3	3	3
Endurance (105°C) (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°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1							
Applicable standards	JIS C5101-1, -18 (IEC 60384-1, -18)							

Outline Drawing

Unit : mm



- 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

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	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) Rated capacitance (μF)	Item	6.3			10			16			25			35			50		
		Case φD × L(mm)	ESR (Ω)	Rated ripple current (mA rms)	Case φD × L(mm)	ESR (Ω)	Rated ripple current (mA rms)	Case φD × L(mm)	ESR (Ω)	Rated ripple current (mA rms)	Case φD × L(mm)	ESR (Ω)	Rated ripple current (mA rms)	Case φD × L(mm)	ESR (Ω)	Rated ripple current (mA rms)	Case φD × L(mm)	ESR (Ω)	Rated ripple current (mA rms)
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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°C , 120Hz ; ESR : 20°C , 120Hz

ALUMINUM

CHIP ALUMINUM

105°C