

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



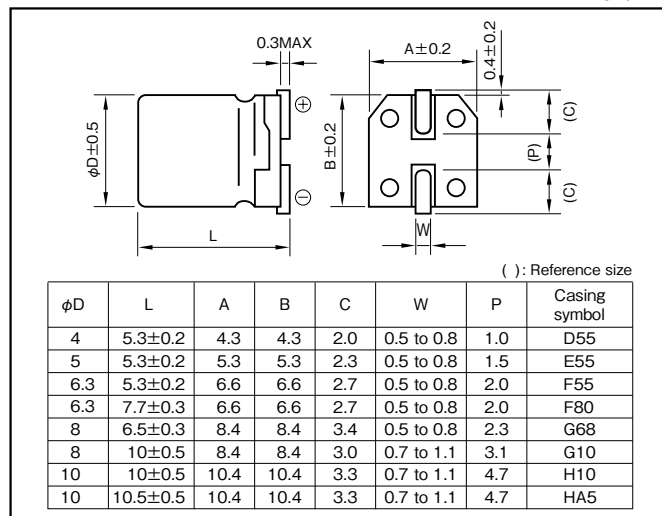
Marking color : Black print

Specifications

Item	Performance						
Category temperature range (°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
	tanδ (max.)	0.30	0.26	0.22	0.16	0.13	0.12
(20°C,120Hz)							
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
		Z-40°C/Z+20°C	8	5	4	3	3
(120Hz)							
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 : 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

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	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)	(mA _{rms})	φD×L(mm)	(Ω)	(mA _{rms})	φD×L(mm)	(Ω)	(mA _{rms})	φD×L(mm)	(Ω)	(mA _{rms})	φD×L(mm)	(Ω)	(mA _{rms})	φD×L(mm)	(Ω)	(mA _{rms})
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°C , 120Hz ; ESR : 20°C , 120Hz