

Chip Type 105°C Capacitors (height:6.0mm)

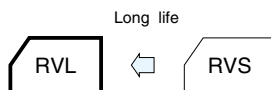
GREEN
CAP

SMD

105°C
2000hours

Anti-
cleaning
solvent

- Compatible with surface mounting for 6.0mm height capacitors.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105°C.



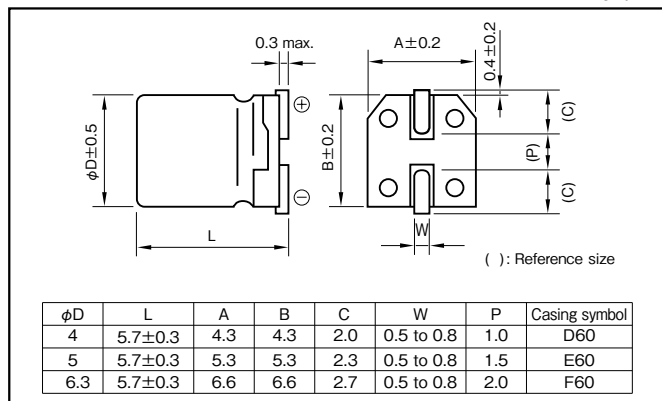
Marking color : Black print

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.)	0.32	0.28	0.24	0.18	0.15	0.14
Characteristics at high and low temperature	(20°C,120Hz)						
	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
Endurance (105°C) (Applied ripple current)	(120Hz)						
	Test time	2000 hours					
	Leakage current	The initial specified value or less					
	Percentage of capacitance change	Within ±30% of initial value					
Shelf life (105°C)	Tangent of the loss angle	300% or less of the initial specified value					
	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



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 · 35	0.80	1	1.25	1.40
50	0.22 to 3.3μF	0.50	1	1.35
	4.7 to 10μF	0.70	1	1.35

Part numbering system (example : 16V470 M F60 U)

RVL	—	16	V	470	M	F60	U	—
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Taping symbol

- Soldering conditions are described on page 15.
- Land pattern size are described on page 13.
- The taping specifications are described on page 16.

Standard Ratings

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)	(mAmps)	φD×L(mm)	(Ω)	(mAmps)	φD×L(mm)	(Ω)	(mAmps)	φD×L(mm)	(Ω)	(mAmps)	φD×L(mm)	(Ω)	(mAmps)	φD×L(mm)	(Ω)	(mAmps)
0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.7	1055	5
0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.7	703	6
0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.7	494	7
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.7	232	12
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.7	105	19
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.7	70	22
4.7	—	—	—	—	—	—	—	—	—	4×5.7	63	21	4×5.7	53	23	5×5.7	49	29
10	—	—	—	—	—	—	4×5.7	40	27	5×5.7	30	36	5×5.7	25	39	6.3×5.7	23	47
22	—	—	—	—	—	—	5×5.7	18	46	6.3×5.7	14	62	6.3×5.7	11	65	—	—	—
33	—	—	—	—	—	—	6.3×5.7	12	66	6.3×5.7	9.0	76	—	—	—	—	—	—
47	—	—	—	6.3×5.7	9.9	74	6.3×5.7	8.5	78	—	—	—	—	—	—	—	—	—
100	6.3×5.7	5.3	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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