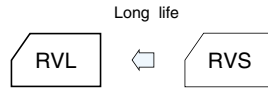


Chip Type 105°C Capacitors (height:6.0mm)

GREEN CAP SMD 105°C 2000hours Anti-cleaning solvent

- Compatible with surface mounting for 6.0mm high 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	(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	2
Endurance (105°C) (Applied ripple current)	Test time	2000 hours						
	Leakage current	The initial specified value or less						
	Percentage of capacitance change	Within ±30% of initial value						
	Tangent of the loss angle	300% 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, -18 1998 (IEC 60384-1 1992, -18 1993)							

Outline Drawing

Unit: mm

φ D	L	A	B	C	W	P	Casing symbol
4	5.7±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0	D60
5	5.7±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5	E60
6.3	5.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F60

Coefficient of Frequency for Rated Ripple Current

Rated voltage(V)	Frequency(Hz)			
	50 · 60	120	1k	10k · 100k
6.3 to 16	0.8	1	1.15	1.25
25 · 35	0.8	1	1.25	1.40
50	0.1 to 3.3µF	0.5	1	1.35
	4.7 to 10µF	0.7	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	Additional symbol	Taping symbol

- Land pattern size is described on page 10.
- The taping specifications are described on page 11.
- Soldering conditions are described on page 28.

Standard Ratings

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
		φ D(mm)	Ω	mArms	φ D(mm)	Ω	mArms	φ D(mm)	Ω	mArms	φ D(mm)	Ω	mArms	φ D(mm)	Ω	mArms	φ D(mm)	Ω	mArms
0.1		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	2321	4
0.22		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	1055	5
0.33		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	703	6
0.47		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	494	7
1		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	232	12
2.2		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	105	19
3.3		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	70	22
4.7		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	49	29
10		—	—	—	—	—	—	4	40	27	5	30	36	5	25	39	6.3	23	47
22		—	—	—	—	—	—	5	18	46	6.3	14	62	6.3	11	65	—	—	—
33		—	—	—	—	—	—	6.3	12	66	6.3	9.0	76	—	—	—	—	—	—
47		—	—	—	—	—	—	6.3	8.5	78	—	—	—	—	—	—	—	—	—
100		6.3	5.3	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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