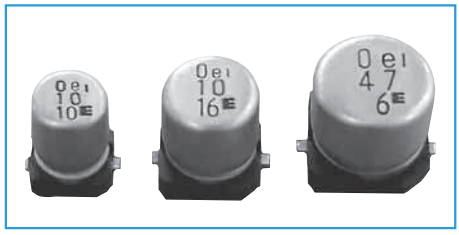
Chip Type 105˚C Use, Long Life Bipolar Capacitors

GREEN CAP | SMD | 105˚C 2000hours | Anti-cleaning solvent

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours 105℃.

Long life

RVI ⇦ RVP



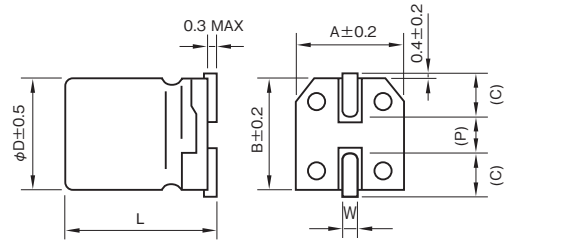
Marking color : Black print

Specifications

Item	Performance
Category temperature range (℃)	−40 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, 0.22, 0.16, 0.14, 0.12, 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, 6, 4, 4, 3, 3 (120Hz)
Endurance (105℃)	Test time: 2000 hours (with the polarity inverted every 250 hours) Leakage current: The initial specified value or less Percentage of capacitance change: Within ±20% of initial value Tangent of loss angle: 200% or less of the initial specified value
Shelf life (105℃)	Test time : 1000 hours ; other items are the same as those for the endurance. Voltage application treatment
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	5.8±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0	D61
5	5.8±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5	E61
6.3	5.8±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F61

- 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

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	0.1 to 3.3μF	0.50	1	1.35	1.50
	4.7μF	0.70	1	1.35	1.50

Part numbering system (example : 6.3V47μF)

RVI	—	6	V	470	M	F61	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 Case φD (mm)	6.3 Rated ripple current (mArms)	10 Case φD (mm)	10 Rated ripple current (mArms)	16 Case φD (mm)	16 Rated ripple current (mArms)	25 Case φD (mm)	25 Rated ripple current (mArms)	35 Case φD (mm)	35 Rated ripple current (mArms)	50 Case φD (mm)	50 Rated ripple current (mArms)
0.33	–	–	–	–	–	–	–	–	–	–	4	3
0.47	–	–	–	–	–	–	–	–	–	–	4	5
1	–	–	–	–	–	–	–	–	–	–	4	10
2.2	–	–	–	–	–	–	–	–	4	10	–	–
3.3	–	–	–	–	–	–	4	12	–	–	5	17
4.7	–	–	–	–	–	–	4	12	–	–	6.3 6.3	20 23
10	–	–	4	20	5	25	6.3	28	–	–	–	–
22	–	–	–	–	–	–	6.3	55	–	–	–	–
33	–	–	6.3	41	–	–	–	–	–	–	–	–
47	6.3	45	–	–	–	–	–	–	–	–	–	–

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

CHIP ALUMINUM

NOTE : Design, Specifications are subject to change without notice.
It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.