RVL VERTICAL CHIP TYPE ALUMINUM ELECTROLYTIC CAPACITORS

ELNA

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.

Long life

RVL ⇦ RVS

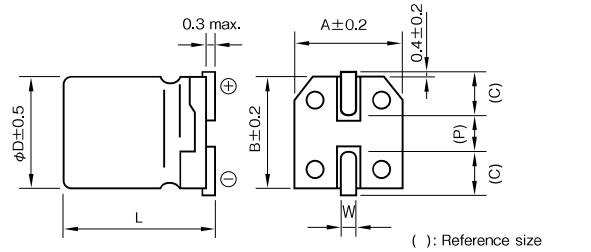
Marking color : Black print

Specifications

Item	Performance						
Category temperature range (℃)	−55 to +105						
Tolerance at rated capacitance (%)	±20						(20℃,120Hz)
Leakage current (μA) (max.)	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.)	0.32	0.28	0.24	0.18	0.15	0.14
							(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	5	4	3	3	3
							(120Hz)
Endurance (105℃) (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℃)	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



φD	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

Refer to individual page.
(Soldering conditions, Land pattern size, The taping specifications)

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	1 to 3.3μF	0.50	1	1.35	1.50
	4.7 to 10μF	0.70	1	1.35	1.50

Part numbering system (example : 16V47μF)

RVL	—	16	V	470	M	F60	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			10			16			25			35			50		
	Case φDXL(mm)	ESR (Ω)	Rated ripple current (mArms)	Case φDXL(mm)	ESR (Ω)	Rated ripple current (mArms)	Case φDXL(mm)	ESR (Ω)	Rated ripple current (mArms)	Case φDXL(mm)	ESR (Ω)	Rated ripple current (mArms)	Case φDXL(mm)	ESR (Ω)	Rated ripple current (mArms)	Case φDXL(mm)	ESR (Ω)	Rated ripple current (mArms)
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℃, 120Hz ; ESR : 20℃, 120Hz

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.