RHS MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

ELNA®

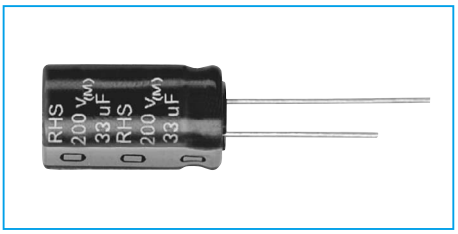
105˚C Use, Miniature, High-Ripple, Long Life Capacitors

GREEN CAP | 105˚C 5000hours

- Higher ripple current.
- Guarantees 4000 to 5000 hours at 105℃.
- Best-suited to electronic ballast.

High ripple, Long life

RHS ⇦ RJ4



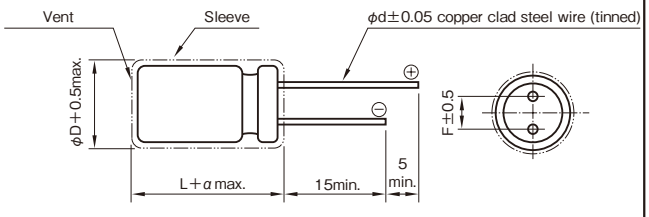
Marking color : White print on a black sleeve

Specifications

Item	Performance
Category temperature range (℃)	−40 to +105 (−25 to +105 at 350V or more)
Rated Voltage (V)	160 to 450
Tolerence at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA)	CV≥1000 : Less than 0.06CV+40 (after 1 minutes) CV<1000 : Less than 0.03CV+70 (after 1 minutes) C : Rated capacitance (μF), V : Rated voltage (V) (20℃)
Tangent of loss angle	Rated voltage (V): 160 to 250 / 350 to 400 / 450 Tangent of loss angle: 0.12 / 0.15 / 0.20 (20℃,120Hz)
Characteristics at high and low temperature	Rated voltage (V): 160 to 250 / 350 to 450 Impedance ratio Z−25℃/Z+20℃: 3 / 6 Impedance ratio Z−40℃/Z+20℃: 4 / − (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: φ10 : 4000 hours; φ12.5 to 18 : 5000 hours Leakage current: The initial specified value or less Capacitance change: Within −20% to +20% of initial value Tangent of loss angle: 300% or less of the initial specified value
Shelf life (105℃)	Test time: 1000 hours Leakage current: The initial specified value or less Capacitance change: Within −20% to +20% of initial value Tangent of loss angle: 200% or less of the initial specified value Voltage application treatment
Applicable Standards	JIS C 5101-01, -04 1998 (IEC 60384-1 1992, 60384-4 1985)

Outline Drawing

Unit : mm



φD	10	12.5	16	18
F	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8
α	2.0	2.5	2.5	2.5

Coefficient of Frequency for Rated Ripple Current

Rated voltage (V) \ Frequency (Hz)	50,60	120	300	1k	10k or more
160 to 450	0.75	1.00	1.20	1.35	1.50

Part numbering system (example : 400V10μF)

RHS	—	400	V	100	M	I5	#	B
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Additional symbol

Miniature Aluminum Electrolytic Capacitors

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.

■Standard Ratings

Case φD×L (mm)	Casing symbol	Rated voltage(V)	160			200			250			350		
		Item	Rated capacitance	ESR	Rated ripple current	Rated capacitance	ESR	Rated ripple current	Rated capacitance	ESR	Rated ripple current	Rated capacitance	ESR	Rated ripple current
			μF	Ω	mArms	μF	Ω	mArms	μF	Ω	mArms	μF	Ω	mArms
10×12.5	H3		–	–	–	4.7	41	60	4.7	41	60	3.3	72	50
10×16	H4		10	19	95	10	19	95	–	–	–	4.7	51	65
10×20	H5		22	9.0	145	22	9.0	145	10	19	105	–	–	–
12.5×20	I5		33	6.0	190	33	6.0	190	–	–	–	10	24	120
12.5×25	I6		47	4.0	280	47	4.0	280	22	9.0	180	22	11	180
			–	–	–	–	–	–	33	6.0	250	–	–	–
16×20	J5		47	4.0	280	47	4.0	280	33	6.0	250	22	11	180
16×25	J6		100	2.0	380	–	–	–	47	4.0	300	33	7.0	210
16×31.5	J7		–	–	–	100	2.0	410	100	2.0	410	–	–	–
16×35.5	J8		–	–	–	–	–	–	–	–	–	47	5.0	300
18×20	K5		100	2.0	380	–	–	–	47	4.0	300	–	–	–
18×25	K6		–	–	–	100	2.0	410	100	2.0	410	–	–	–
18×31.5	K7		–	–	–	–	–	–	–	–	–	47	5.0	300
18×35.5	K8		220	0.90	630	–	–	–	–	–	–	–	–	–

Case φD×L (mm)	Casing symbol	Rated voltage(V)	400			450		
		Item	Rated capacitance	ESR	Rated ripple current	Rated capacitance	ESR	Rated ripple current
			μF	Ω	mArms	μF	Ω	mArms
10×12.5	H3		2.2	109	40	1.0	318	30
10×16	H4		3.3	72	50	2.2	145	45
10×20	H5		4.7	51	70	3.3	96	65
12.5×20	I5		10	24	120	–	–	–
12.5×25	I6		–	–	–	4.7	68	80
			–	–	–	10	32	140
16×25	J6		22	11	200	22	14	220
			–	–	–	33	10	280
16×31.5	J7		33	7.0	245	47	5.6	420
16×35.5	J8		–	–	–	68	3.9	520
18×20	K5		22	11	200	–	–	–
18×25	K6		33	7.0	245	–	–	–
18×31.5	K7		47	5.0	300	82	3.2	580
18×35.5	K8		–	–	–	100	2.6	750
18×40	K9		–	–	–	120	2.2	800

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