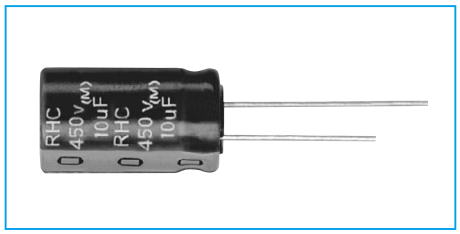
105°C Use, Miniature, High-Ripple, Long Life Capacitors

GREEN CAP | 105°C 10000hours

- Higher ripple current.
- Guarantees 5000 to 10000 hours at 105℃.
- Best-suited to electronic ballast.

High ripple, Long life

RHC ⇦ RHS



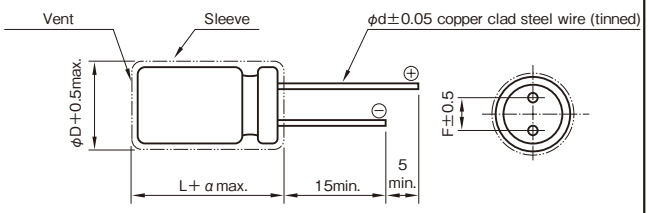
Marking color : White print on a black sleeve

Specifications

Item	Performance
Category temperature range (℃)	−25 to +105
Rated Voltage (V)	160 to 450
Tolerence at rated capacitance (%)	±20 (20℃,120Hz)
Leakage current (μA)	Less than 0.04CV + 100 (after 1 minutes) C : Rated capacitance (μF), V : Rated voltage (V) (20℃)
Tangent of loss angle	Rated voltage (V): 160 to 250 / 350 to 450; Tangent of loss angle: 0.10 / 0.12 (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 (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: φ10×12.5 : 5000 hours; φ10×16 to 20 : 8000 hours; φ12.5 to 18 : 10000 hours Leakage current: The initial specifide value or less Capacitance change: Within −30% to + 30% 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 specifide 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	120	1k	10k	100k
160 to 450	0.30	0.50	0.80	0.90	1.00

Part numbering system (example : 400V10μF)

RHC	—	400	V	100	M	H5	#	B
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol		Additional symbol

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

Standard Ratings

Rated voltage(V) / Item / Case φD×L(mm) / Casing symbol	160			200			250			350		
	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	28	200	4.7	28	200	1.5	106	100
	–	–	–	–	–	–	–	–	–	2.2	72	140
	–	–	–	–	–	–	–	–	–	3.3	48	180
10×16 / H4	10	13	320	6.8	20	220	6.8	20	250	4.7	34	220
	–	–	–	10	13	320	10	13	320	5.6	28	250
10×20 / H5	22	6.0	500	22	6.0	500	22	6.0	500	6.8	23	280
	33	4.0	650	33	4.0	650	–	–	–	10	16	350
	47	2.8	750	–	–	–	–	–	–	–	–	–
12.5×20 / I5	68	2.0	1180	47	2.8	980	33	4.0	800	22	7	650
12.5×25 / I6	100	1.3	1420	68	2.0	1300	47	2.8	980	–	–	–
16×20 / J5	68	2.0	1180	68	2.0	1300	68	2.0	1300	33	4.8	900
	100	1.3	1420	100	1.3	1420	–	–	–	47	3.4	1080
16×25 / J6	150	0.9	1890	150	0.9	1890	100	1.3	1530	–	–	–
18×25 / K6	220	0.6	2370	–	–	–	150	0.9	1940	68	2	1470

Rated voltage(V) / Item / Case φD×L(mm) / Casing symbol	400			450		
	Rated capacitance	ESR	Rated ripple current	Rated capacitance	ESR	Rated ripple current
	μF	Ω	mArms	μF	Ω	mArms
10×12.5 / H3	1.0	160	70	–	–	–
	1.5	107	100	–	–	–
	2.2	72	140	–	–	–
10×16 / H4	3.3	48	180	2.2	72	150
	4.7	34	220	3.3	48	180
10×20 / H5	5.6	28	250	4.7	34	220
	6.8	23	280	5.6	28	250
	10	16	350	6.8	23	280
12.5×20 / I5	15	11	550	10	16	450
12.5×25 / I6	22	7.2	760	15	11	600
16×20 / J5	22	7.2	760	22	7.2	730
	33	4.8	900	–	–	–
16×25 / J6	47	3.4	1180	33	4.8	980
18×25 / K6	68	2.3	1470	47	3.4	1200

(Note) ESR : 20℃, 120Hz ; Rated ripple current : 105℃, 100kHz

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