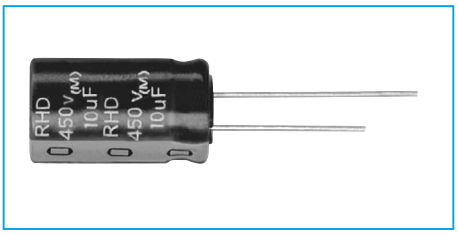
105°C Use, Miniature, High-Ripple, Long Life Capacitors

GREEN CAP | 105°C 12000hours

- Higher ripple current.
- Guarantees 10000 to 12000 hours at 105℃.
- Best-suited to electronic ballast.

High ripple, Long life

RHD ⇦ RHC



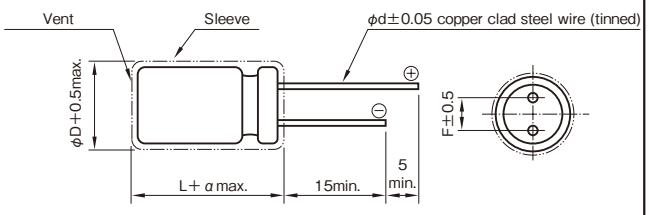
Marking color : White print on a black sleeve

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: 0.15 / 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 (120Hz)
Endurance (105℃) (Applied ripple current)	Test time: φ10 : 10000hours; φ12.5 to 18 : 12000hours Leakage current: The initial specified 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: 1000hours 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	120	1k	10k	100k
160 to 450	0.30	0.50	0.80	0.90	1.00

Part numbering system (example : 400V47μF)

RHD	—	400	V	470	M	K6	#	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

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
10×16	H4		10	20	250	10	20	250	–	–	–	6.8	39	220
10×20	H5		22	9.0	500	22	9.0	500	10	20	280	10	27	280
			33	6.0	500	–	–	–	–	–	–	–	–	–
12.5×20	I5		47	4.2	660	33	6.0	600	22	9.0	600	22	12	350
			–	–	–	47	4.2	660	33	6.0	600	–	–	–
12.5×25	I6		68	2.9	760	68	2.9	760	47	4.2	720	–	–	–
16×20	J5		68	2.9	760	68	2.9	760	47	4.2	720	33	8.0	500
16×25	J6		100	2.0	1120	100	2.0	1120	68	2.9	920	47	5.6	660
16×31.5	J7		150	1.3	1360	150	1.3	1360	100	2.0	1200	68	3.9	850
			220	0.9	1400	–	–	–	–	–	–	–	–	–
18×20	K5		100	2.0	1120	100	2.0	1120	68	2.9	920	47	5.6	660
18×25	K6		150	1.3	1360	150	1.3	1360	100	2.0	1200	68	3.9	850
			220	0.9	1400	–	–	–	–	–	–	–	–	–
18×31.5	K7		–	–	–	220	0.9	1700	150	1.3	1500	–	–	–

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
10×16	H4		6.8	39	220	–	–	–
10×20	H5		10	27	280	6.8	39	150
12.5×20	I5		–	–	–	10	27	320
12.5×25	I6		22	12	430	–	–	–
16×20	J5		22	12	430	–	–	–
16×25	J6		33	8.0	640	22	12	560
16×31.5	J7		47	5.6	840	33	8.0	700
18×20	K5		33	8.0	640	22	12	560
18×25	K6		47	5.6	840	33	8.0	700
18×31.5	K7		68	3.9	1000	47	5.6	880
18×35.5	K8		–	–	–	68	3.9	1130

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

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