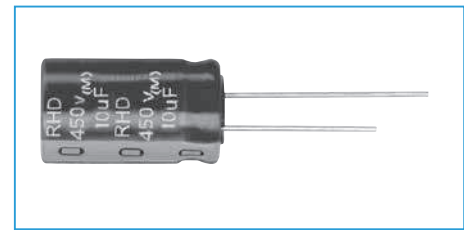


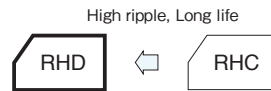
## 105°C Use, Miniature, High-Ripple, Long Life Capacitors

GREEN CAP 105°C 12000hours

- Higher ripple current.
- Guarantees 8000 to 12000 hours at 105°C.
- Best-suited to electronic ballast.



Marking color : White print on a black sleeve

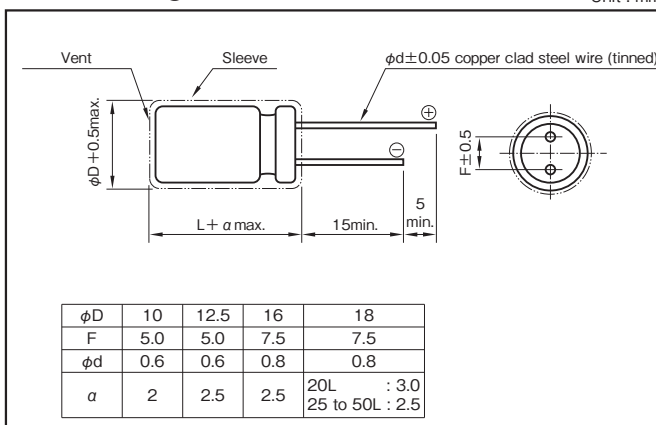


### Specifications

Item	Performance		
Category temperature range (°C)	-25 to +105		
Rated Voltage (V)	160 to 450		
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)		
Leakage current(μA)	Less than 0.04CV + 100 (after 1 minutes) C:Rated capacitance (μF),V:Rated Voltage (V) (20°C)		
Tangent of loss angle (tanδ)	Rated voltage (V)	160 to 250	350 to 450
	Tangent of loss angle	0.15	0.20
Characteristics at high and low temperature	Rated voltage (V)	160 to 250	350 to 450
	Impedance ratio Z-25°C/Z+20°C	3	6
Endurance (105°C) (Applied ripple current)	Test time	φ10×12.5L : 8000hours φ10×16L to 25L : 10000hours φ10×30L, φ12.5 to φ18 : 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°C)	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	
Applicable Standards	JIS C 5101-01, -04 1998 (IEC 60384-1 1992,60384-4 1985)		

### Outline Drawing

Unit : mm



### 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

### 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	Optional symbol	Taping(Forming) symbol		

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.

Standard Ratings

Rated voltage(V)			160			200			250			350		
Case φD × L (mm)	Casing symbol	Item	Rated capacitance (μF)	ESR (Ω max.)	Rated ripple current (mArms)	Rated capacitance (μF)	ESR (Ω max.)	Rated ripple current (mArms)	Rated capacitance (μF)	ESR (Ω max.)	Rated ripple current (mArms)	Rated capacitance (μF)	ESR (Ω max.)	Rated ripple current (mArms)
10 × 12.5	H3	—	—	—	—	10	20	250	6.8	29	250	4.7	56	200
			12	17	310	5.6	47	220						
10 × 16	H4	—	10	20	250	10	20	250	22	9.0	350	6.8	39	220
			39	5.1	490	22	9.0	360				12	22	280
10 × 20	H5	—	22	9.0	500	22	9.0	500	10	20	280	10	27	280
			33	6.0	500	33	6.0	600				15	18	360
			56	3.6	620	39	5.1	640				33	6.0	500
10 × 25	H6	—	68	2.9	760	47	4.2	660	39	5.1	570	22	12	440
			56	3.6	680	56	3.6	700				27	9.8	500
10 × 30	H7	—	100	2.0	980	68	2.9	800	47	4.2	670	27	9.8	500
			56	3.6	700	33	6.0	600				22	9.0	600
12.5 × 20	I5	—	47	4.2	660	47	4.2	660	33	6.0	600	22	12	350
			82	2.4	1040	56	3.6	700				27	9.8	600
			68	2.9	760	68	2.9	940				47	4.2	650
			100	2.0	1260	100	2.0	1240				47	4.2	720
12.5 × 25	I6	—	68	2.9	760	68	2.9	1020	39	6.8	770			
12.5 × 30	I7	—	100	2.0	1260	100	2.0	1200	56	4.7	980			
12.5 × 35	I8	—	180	1.1	1880	150	1.3	1700	100	2.0	1400	68	3.9	1160
12.5 × 40	I9	—	220	0.9	2170	180	1.1	1950	—	—	—	82	3.2	1300
16 × 20	J5	—	68	2.9	760	68	2.9	760	47	4.2	720	33	8.0	500
			150	1.3	1560	100	2.0	1260				82	2.4	1150
16 × 25	J6	—	100	2.0	1120	150	1.3	1680	120	1.7	1260	68	3.9	1130
			180	1.1	1850	100	2.0	1200				82	3.2	1350
16 × 31.5	J7	—	270	0.7	2500	220	0.9	2220	150	1.3	1800	100	2.7	1510
16 × 35.5	J8	—	330	0.6	2730	270	0.7	2480	180	1.1	2040	120	2.2	1750
16 × 40	J9	—	390	0.5	3090	330	0.6	2840	220	0.9	2330	150	1.8	2115
18 × 20	K5	—	100	2.0	1120	100	2.0	1120	68	2.9	920	47	5.6	660
			180	1.1	1800	150	1.3	1300				100	2.0	1330
18 × 25	K6	—	150	1.3	1360	220	0.9	1400	150	1.3	1730	82	3.2	1290
			220	0.9	1400	220	0.9	1700				100	2.7	1420
			270	0.7	2340	270	0.7	2530				120	2.2	1710
18 × 31.5	K7	—	330	0.6	2580	270	0.7	2530	220	0.9	2240	150	1.8	2115
			390	0.5	3000	330	0.6	2840				180	1.5	2100
18 × 35.5	K8	—	470	0.4	3420	330	0.6	2840	270	0.7	2550	180	1.5	2100
18 × 40	K9	—	560	0.4	3780	390	0.5	3170	330	0.6	2910	220	1.2	2400
18 × 45	KA	—	680	0.3	4240	470	0.4	3500	—	—	—	—	—	—
18 × 50	KB	—	—	—	—	560	0.4	3880	390	0.5	3240	—	—	—

ALUMINUM

MINIATURE ALUMINUM

105°C

Rated voltage(V)			400			450		
Case φD × L (mm)	Casing symbol	Item	Rated capacitance (μF)	ESR (Ω max.)	Rated ripple current (mArms)	Rated capacitance (μF)	ESR (Ω max.)	Rated ripple current (mArms)
10 × 12.5	H3	—	4.7	56	220	3.9	68	120
			3.3	80	200	4.7	56	130
10 × 16	H4	—	6.8	39	220	6.8	39	140
			10	27	280	4.7	56	140
10 × 20	H5	—	10	27	280	6.8	39	150
			12	22	330	10	27	280
			12	22	290	12	22	290
10 × 25	H6	—	18	15	500	15	18	380
10 × 30	H7	—	22	12	600	22	12	470
12.5 × 20	I5	—	18	15	540	10	27	320
			15	18	380	15	15	500
			18	15	500	22	12	620
12.5 × 25	I6	—	27	9.8	710	27	9.8	690
12.5 × 30	I7	—	47	5.6	910	33	8.0	700
12.5 × 35	I8	—	—	—	—	39	6.8	920
12.5 × 40	I9	—	56	4.7	1090	47	5.6	1050
16 × 20	J5	—	22	12	430	27	9.8	700
			33	8.0	790	22	12	560
16 × 25	J6	—	47	5.6	1180	47	5.6	1000
16 × 31.5	J7	—	68	3.9	1250	56	4.7	1160
16 × 35.5	J8	—	82	3.2	1380	68	3.9	1300
16 × 40	J9	—	100	2.7	1510	82	3.2	1480
			120	2.2	1740	22	12	560
18 × 20	K5	—	33	8.0	640	39	6.8	870
			47	5.6	910	33	8.0	700
18 × 25	K6	—	68	3.9	1250	56	4.7	1120
			82	3.2	1280	82	3.2	1450
18 × 31.5	K7	—	100	2.7	1520	68	3.9	1130
			120	2.2	1700	100	2.7	1640
18 × 35.5	K8	—	120	2.2	1700	100	2.7	1640
			120	2.2	1740	100	2.7	1670
18 × 40	K9	—	150	1.8	1900	120	2.2	1830
			150	1.8	1970	—	—	—
18 × 45	KA	—	180	1.5	2100	—	—	—
18 × 50	KB	—	—	—	150	1.8	2100	

(Note) Rated ripple current : 105°C , 100kHz ; ESR. : 20°C , 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.