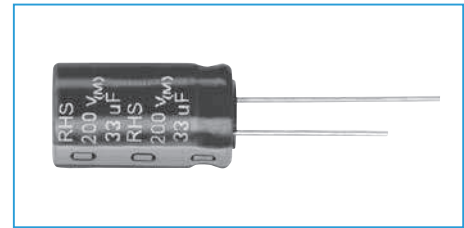
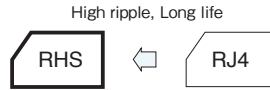


105°C Use, Miniature, High-Ripple, Long Life Capacitors

GREEN CAP

105°C
5000hours

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



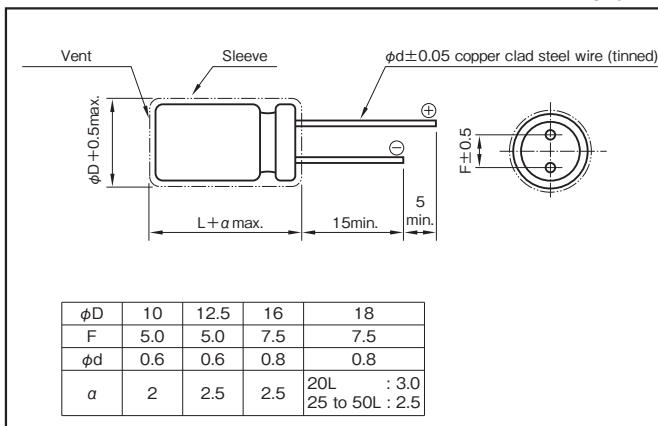
Marking color : White print on a black sleeve

Specifications

Item	Performance														
Category temperature range (°C)	-40 to +105 (-25 to +105 at 350V or more)														
Rated Voltage (V)	160 to 450														
Tolerance at rated capacitance (%)	±20 (20°C, 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°C)														
Tangent of loss angle (tanδ)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>160 to 250</td> <td>350 to 400</td> <td>450</td> </tr> <tr> <td>Tangent of loss angle</td> <td>0.12</td> <td>0.15</td> <td>0.20</td> </tr> </table> <p>(20°C, 120Hz)</p>	Rated voltage (V)	160 to 250	350 to 400	450	Tangent of loss angle	0.12	0.15	0.20						
Rated voltage (V)	160 to 250	350 to 400	450												
Tangent of loss angle	0.12	0.15	0.20												
Characteristics at high and low temperature	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>160 to 250</td> <td>350 to 450</td> </tr> <tr> <td rowspan="2">Impedance ratio</td> <td>Z-25°C/Z+20°C</td> <td>3</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>-</td> </tr> </table> <p>(120Hz)</p>	Rated voltage (V)	160 to 250	350 to 450	Impedance ratio	Z-25°C/Z+20°C	3	Z-40°C/Z+20°C	4			6			-
Rated voltage (V)	160 to 250	350 to 450													
Impedance ratio	Z-25°C/Z+20°C	3													
	Z-40°C/Z+20°C	4													
		6													
		-													
Endurance (105°C) (Applied ripple current)	<table border="1"> <tr> <td>Test time</td> <td>φ10 : 4000 hours φ12.5 to φ18 : 5000 hours</td> </tr> <tr> <td>Leakage current</td> <td>The initial specified value or less</td> </tr> <tr> <td>Capacitance change</td> <td>Within -20% to +20% of initial value</td> </tr> <tr> <td>Tangent of loss angle</td> <td>300% or less of the initial specified value</td> </tr> </table>	Test time	φ10 : 4000 hours φ12.5 to φ18 : 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						
Test time	φ10 : 4000 hours φ12.5 to φ18 : 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°C)	<table border="1"> <tr> <td>Test time</td> <td>1000 hours</td> </tr> <tr> <td>Leakage current</td> <td>The initial specified value or less</td> </tr> <tr> <td>Capacitance change</td> <td>Within -20% to +20% of initial value</td> </tr> <tr> <td>Tangent of loss angle</td> <td>200% or less of the initial specified value</td> </tr> </table> <p>Voltage application treatment</p>	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						
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														
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)	Rated capacitance (µF)	Frequency (Hz)				
		50 · 60	120	1k	10k	100k
160 to 250	4.7 to 10	0.80	1	1.75	2.00	2.50
	12 to 47	0.80	1	1.60	1.80	2.00
	56 to 560	0.80	1	1.30	1.40	1.40
350 to 450	1 to 10	0.80	1	1.75	2.00	2.50
	12 to 18	0.80	1	1.60	1.80	2.00
	22 to 220	0.80	1	1.40	1.50	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	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		27	5.9	145	4.7	34	60	4.7	34	60	3.3	60	50
						18	8.8	105	10	16	82	4.7	42	55
10 × 16	H4		10	16	96	10	16	95	10	16	90	8.2	24	85
			39	4.1	185	22	7.2	110	4.7	42	65	12	17	120
10 × 20	H5		22	7.2	145	22	7.2	145	10	16	105	15	13	145
			56	2.8	270	33	4.8	170	22	7.2	150			
10 × 25	H6		68	2.3	290	47	3.4	245	39	4.1	240	22	9.0	175
10 × 30	H7		100	1.6	315	68	2.3	350	47	3.4	270	27	7.4	210
12.5 × 20	I5		33	4.8	190	33	4.8	190	47	3.4	260	10	20	120
			82	1.9	270	56	2.8	240	27	7.4	200			
12.5 × 25	I6		47	3.4	280	47	3.4	280	22	7.2	180	22	9.0	180
			100	1.6	325	82	1.9	320	33	4.8	250	39	5.1	225
						68	2.3	265						
12.5 × 30	I7		150	1.1	435	120	1.3	420	82	1.9	420	56	3.6	290
12.5 × 40	I9		220	0.7	500	—	—	—	120	1.3	580	68	2.9	370
16 × 20	J5		47	3.4	280	47	3.4	280	33	4.8	250	22	9.0	180
			120	1.3	375	100	1.6	370	68	2.3	275	47	4.2	270
16 × 25	J6		180	0.9	505	150	1.1	500	47	3.4	300	33	6.0	210
						120	1.3	405	68	2.9	365			
16 × 31.5	J7		270	0.6	685	100	1.6	410	100	1.6	410	82	2.4	445
						220	0.7	665	150	1.1	510			
16 × 35.5	J8		330	0.5	800	—	—	—	180	0.9	590	47	4.2	300
												100	2.0	520
16 × 40	J9		390	0.4	915	270	0.6	820	220	0.7	685	120	1.7	600
						100	1.6	380	47	3.4	300	56	3.6	325
18 × 20	K5		180	0.9	490	120	1.3	430	100	1.6	360	82	2.4	430
			270	0.6	660	100	1.6	410	100	1.6	410	47	4.2	300
18 × 25	K6					180	0.9	580	150	1.1	485	100	2.0	520
			330	0.5	810	270	0.6	790	180	0.9	590	47	4.2	300
18 × 31.5	K7											100	2.0	520
			220	0.7	630	—	—	—	220	0.7	690	120	1.7	600
18 × 40	K9		390	0.4	925	—	—	—	270	0.6	810	150	1.3	715
			470	0.3	1050	330	0.5	970	270	0.6	810	180	1.1	730
18 × 45	KA		560	0.3	1230	390	0.4	1100	330	0.5	945	220	0.9	960
18 × 50	KB		—	—	—	470	0.3	1200	—	—	—	—	—	—

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		2.2	90	40	1.0	265	30
			6.8	29	70	5.6	47	60
10 × 16	H4		3.3	60	50	2.2	121	45
			10	20	95	4.7	56	68
10 × 20	H5		4.7	42	70	8.2	32	90
						3.3	80	65
10 × 25	H6		18	11	160	12	22	120
10 × 30	H7		22	9.0	200	15	18	150
12.5 × 20	I5		10	20	120	22	12	190
			22	9.0	200	18	15	170
12.5 × 25	I6		27	7.4	220	10	27	140
						27	9.8	210
12.5 × 30	I7		39	5.1	310	33	8.0	280
12.5 × 40	I9		56	3.6	440	47	5.6	400
16 × 20	J5		33	6.0	220	27	9.8	220
			22	9.0	200	22	12	220
16 × 25	J6		47	4.2	340	33	8.0	280
						47	5.6	380
						33	6.0	245
16 × 31.5	J7		68	2.9	465	47	5.6	420
			82	2.4	500	56	4.7	520
16 × 35.5	J8		82	2.4	500	68	3.9	520
16 × 40	J9		100	2.0	525	82	3.2	680
18 × 20	K5		22	9.0	200	39	6.8	330
			47	4.2	335			
18 × 25	K6		33	6.0	245	68	3.9	420
			68	2.9	450			
18 × 31.5	K7		47	4.2	300			
			82	2.4	500	82	3.2	580
			100	2.0	525			
18 × 35.5	K8		—	—	100	2.7	750	
18 × 40	K9		120	1.7	785	120	2.2	800
18 × 45	KA		150	1.3	865	150	1.8	920
18 × 50	KB		—	—	—	180	1.5	1100

(Note) Rated ripple current : 105°C , 120Hz ; ESR. : 20°C , 120Hz