



RL Long Life Assurance, High Ripple Current

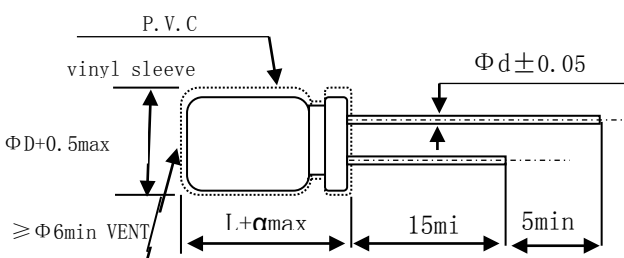
☆ High temperature and long load life, 3000~8000 hours

■ Specifications

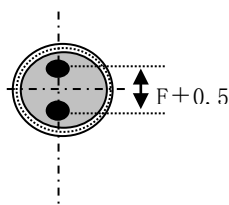
Operating temperature range	-40~+105°C					-25~+105°C					
Rated voltage range	6.3~100V DC					160~450V DC					
Nominal capacitance range	0.1~22000μF										
Capacitance tolerance	±20%(25°C, 120Hz)										
Leakage current	$I \leq 0.03CRUR$ Whichever is greater(1minutes)					$I \leq 0.04CRUR + 40(\mu A)$, Whichever is greater(1minutes)					
Tg δ Dissipation factor (25°C, 120HZ)	U _R (V)	6.3	10	16	25	35	50	63	100	160	200
	tg δ	0.28	0.24	0.2	0.16	0.14	0.12	0.1	0.08	0.20	0.20
	U _R (V)	250	350	400	450						
	tg δ	0.20	0.25	0.25	0.25						
0.02 is added to every 1000μF increase over 1000μF											
characteristics (120HZ)	U _R (V)	6.3	10	16	25	35	50	63	100		
	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2		
	Z-40°C / Z+20°C	12	10	8	5	4	3	3	3		
	U _R (V)	160	200	250	350	400	450				
Z-25°C / Z+20°C	3	3	4	4	6	15					
0.5 is added to every 1000μF increase over 1000μF											
Load life	After applying rated voltage with specified ripple current for 3000 to 8000hours at +105°C and then resumed 16hours; Capacitance change : Within ±25% of the initial measured value Leakage current: : Not more than the initial specified value Dissipation factor: Not more than 200% of the initial specified value										
Shelf life	After storage for 1000hours at +105°C then resumed 16hours; Capacitance change : With ±20% of the initial measured value Leakage current: : Not more than 200% of the initial specified value Dissipation factor : Not more than 200% of the initial specified value										

■ Case size table

Unit:mm



ΦD	5	6	8	10	12	13	16	18	21	22
F	2.0	2.5	3.5	5.0		7.5		10.0		
Φd	0.5			0.6		0.8				
α	1.0			1.5		2.0				





ALUMINUM ELECTROLYTIC CAPACITOR

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■Nominal capacitance, rated voltage, rated ripple current and case size table

$U_R(V)$ $C_R(\mu F)$ / code litem		6.3V (1A)		10V (1A)		16V (1C)		25V (1E)	
		D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)
4.7	4R7							5×11	26
10	100					5×11	35	5×11	38
22	220	5×11	42	5×11	48	5×11	52	5×11	55
33	330	5×11	52	5×11	56	5×11	60	5×11	78
47	470	5×11	62	5×11	68	5×11	80	5×11	82
100	101	5×11	98	5×11	108	6.3×11	130	6.3×11	165
220	221	6.3×11	186	6.3×11	210	8×12	270	8×12	298
330	331	6.3×11	233	8×12	308	8×12	340	10×12.5	413
470	471	8×12	330	8×12	365	10×12.5	456	10×16	555
1000	102	10×12.5	560	10×16	690	10×20	815	12.5×20	1014
2200	222	12.5×20	1010	12.5×20	1095	12.5×25	1328	16×25	1549
3300	332	12.5×20	1280	12.5×25	1456	16×25	1745	16×30	1860
4700	472	16×25	1778	16×25	1878	16×30	2052	18×35	2510
6800	682	16×25	1958	16×30	2165	18×35	2730	22×40	3116
10000	103	16×30	2250	18×35	2158	22×40	3705		
12000	123	16×30	2300	18×35	2850				
15000	153	18×35	2748	18×40	2700				
18000	183	18×40	3040	22×40	3125				
22000	223	22×40	3068						

$U_R(V)$ $C_R(\mu F)$ / code litem		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)
0.1	0R1			5×11	1			5×11	3.5
0.22	R22			5×11	2.5			5×11	5.5
0.33	R33			5×11	3.5			5×11	6.5
0.47	R47			5×11	7			5×11	8.5
1	010			5×11	12			5×11	17
2.2	2R2			5×11	20			5×11	22
3.3	3R3			5×11	30			5×11	35
4.7	4R7	5×11	25	5×11	38	5×11	40	5×11	42
10	100	5×11	39	5×11	52	5×11	60	6.3×11	64
22	220	5×11	69	6.3×11	90	6.3×11	88	8×12	111
33	330	5×11	80	6.3×11	117	8×12	145	10×12.5	163
47	470	6.3×11	122	6.3×11	136	8×12	171	10×16	223
100	101	8×12	210	8×12	232	10×12.5	256	12.5×20	405
220	221	10×12.5	354	10×16	530	10×20	504	16×25	737
330	331	10×16	495	10×20	716	12.5×20	718	16×25	911
470	471	10×20	644	12.5×20	821	12.5×25	907	16×30	1029
1000	102	12.5×25	1221	16×25	1566	18×30	1743	18×40	2022
2200	222	16×30	1723	18×35	2012	18×40	1979		
3300	332	18×35	2174	22×40	2728				
4700	472	18×40	2675						



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■ Nominal capacitance, rated voltage, rated ripple current and case size table

U_R (V) I_{tem} C_R (μF) code		160V (2C)		200V (2D)		250V (2E)		315V (2F)	
		D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)
0.47	R47	6.3×11	13	6.3×11	11	6.3×11	8		
1	010	6.3×11	20	6.3×11	16	6.3×11	17	6.3×11	18
2.2	2R2	6.3×11	29	6.3×11	25	8×12	32	8×12	30
3.3	3R3	8×12	42	8×12	35	8×12	34	10×12.5	46
4.7	4R7	8×12	51	10×12.5	56	8×12	38	10×16	51
10	100	10×16	80	10×16	80	10×16	90	10×20	78
22	220	10×20	123	10×20	128	10×20	148	12.5×25	162
33	330	10×20	160	10×20	140	12.5×20	190	16×25	200
47	470	10×20	217	12.5×20	230	12.5×20	281	16×30	296
100	101	12.5×25	409	16×20	380	16×25	501	18×40	507
150	151	16×25	480	16×25	550	18×25	490	18×40	627
220	221	16×30	805	18×30	650	18×40	603		
270	271	18×40	902	18×40	970				
330	331	20×40	983						

U_R (V) I_{tem} C_R (μF) code		350V (2V)		400V (2G)		450V (2W)	
		D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)
1	10	8×12	22	8×12	23	10×12.5	22
2.2	2R2	8×12	35	10×12.5	35	10×16	32
3.3	3R3	10×12.5	42	10×16	40	10×20	34
4.7	4R7	10×12.5	54	10×16	56	10×20	52
10	100	10×20	90	10×20	100	12.5×20	92
22	220	12.5×20	162	16×20	186	16×25	164
33	330	16×20	218	16×20	254	18×25	325
47	470	18×25	341	18×25	345		