

ALUMINUM ELECTROLYTIC CAPACITOR (CD81 RX)

RX FEATURES

- Low leakage current for radial lead type
- $\Phi D \geq 8\text{mm}$ with top safety vent construction
- Ideally suited for high stability circuits

SPECIFICATIONS

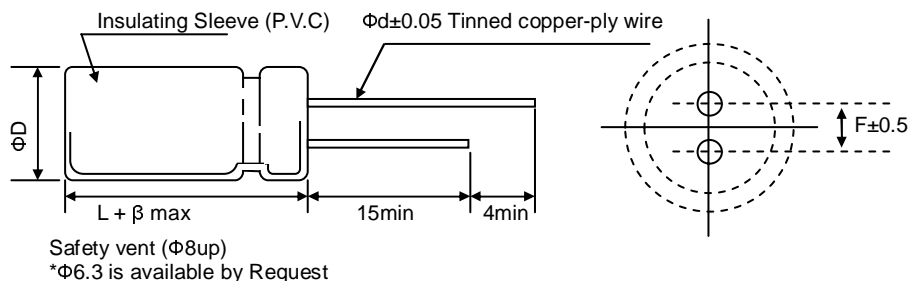
Item	Performance Characteristics																
Rated Voltage Range	6.3V.DC~100V.DC								160V.DC~450V.DC								
Operating Temperature Range	-40°C~+105°C								-25°C~+105°C								
Nominal Capacitance Range	0.1μF~10000μF 1μF~220μF																
Capacitance Tolerance	±20%(M ,+25°C,120Hz)																
Leakage Current	Rated Working Voltage(V)	6.3~100								160~450							
		After application of rated voltage for 2 minutes: I≤0.01CV or 3μA(Whichever is greater)25°C								After application of rated voltage for 2 minutes: I≤0.02CV or 5μA(Whichever is greater)25°C							
		C: Nominal Capacitance in μF ;								V: Rated working Voltage in V							
Dissipation Factor (tanδ)	When capacitance is over 1000μF, tanδ shall be added 0.02 with increase of every 1000μF																
	Rated Working Voltage(V)		6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	tanδ(MAX) (25°C,120Hz)		0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.15	0.15	0.20	0.20	0.20	
Temperature Stability	Rated Working Voltage(V)		6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	Impedance Ratio(120Hz)	-25°C/Z+20°C	4	3	2						3			4		10	
		-40°C/Z+20°C	8	6	4	3											
Load Life	After application of rated working voltage and maximum permissible ripple current specified at+105°C for 1000 hours , Capacitors meet the characteristics requirements measured at +25°C listed:																
	Leakage Current								Less than the initial specified value								
	tanδ								Less than 200% of the initial specified value								
	Capacitance Change								Within ±20% of the initial measured value								
Shelf Life	After leaving capacitor under no load at +105°C for 500 hours, Capacitors meet the characteristics listed above.																

MULTIPLIER FOR RIPPLE CURRENT

Temperature coefficient

Ambient Temperature(°C)	+105	+85	+65
Factor	1.0	1.7	2.1

CASE SIZE TABLE



β	0.5		1.0				
ΦD	5	6.3	8	10	12 13	16	18
$F \pm 0.5$	2.0	2.5	3.5	5		7.5	
$\Phi d \pm 0.1$	0.5			0.6		0.8	
L	11		12,16	14,17,20	20,25	25,30	30,35,40
α	1.0		$L < 17: 1.0; L \geq 17: 2.0$				

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DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

V uF	6.3		10		16		25		35		50		63		100	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
0.1											5X11	1.0				
0.15											5X11	1.9				
0.22											5X11	2.5				
0.33											5X11	4				
0.47											5X11	7				
0.68											5X11	10				
1											5X11	13			5X11	15
1.5											5X11	16			5X11	16
2.2											5X11	20			5X11	21
3.3											5X11	25			5X11	30
4.7								25	5X11	28	5X11	32			5X11	35
6.8									5X11	31	5X11	38			6.3X11	46
10					5X11	35	5X11	36	5X11	41	5X11	46	5X11	48	6.3X11	60
15					5X11	42	5X11	44	5X11	46	5X11	52	6.3X11	61	6.3X11	75
22			5X11	45	5X11	54	5X11	58	5X11	61	5X11	68	6.3X11	80	8X12	98
33	5X11	55	5X11	58	5X11	65	5X11	69	5X11	77	6.3X11	94	6.3X11	100	8X12	140
47	5X11	65	5X11	68	5X11	80	5X11	84	6.3X11	100	6.3X11	115	8X12	140	10X14	185
68	5X11	74	5X11	80	6.3X11	100	6.3X11	107	6.3X11	130	8X12	153	8X12	176	10X20	223
100	5X11	96	5X11	105	6.3X11	130	6.3X11	140	8X12	170	8X12	200	8X16 (10X14)	230	10X20	290
150	6.3X11	123	6.3X11	134	6.3X11	169	8X12	184	8X12	785	10X17	276	10X20	300	13X20	430
220	6.3X11	160	6.3X11	175	8X12	220	8X12	240	8X16 (10X14)	200	10X17	360	10X20	390	13X25	560
330	6.3X11	210	8X12	235	8X12	270	8X16 (10X14)	335	10X14	400	10X20	470	13X20	540	16X25	690
470	8X12	275	8X12	295	8X16 (10X14)	375	10X14	440	10X20	525	13X20	600	13X25	700	16X30	880
680	v	353	10X14	415	10X17	492	10X20	569	13X20	665	13X25	815	16X25	923	18X35	930
1000	8X16 (10X14)	460	10X14	540	10X17	640	12X20	740	16X20	865	16X25	1060	16X30	1200	18X40	985
1500	10X17	596	10X20	661	13X20	807	13X25	946	16X25	1053	16X30	1230	18X30	1269		
2200	10X20	775	10X20	860	13X20	1050	13X25	1230	16X25	1370	18X30	1600	18X40	1650		
3300	13X20	985	13X20	1100	16X25	1300	16X25	1500	18X30	1680	18X40	1780				
4700	13X25	1150	13X25	1350	16X25	1650	16X30	1800	18X40	1870						
6800	16X25	1480	13X30	1700	18X30	1900	18X35	1910								
10000	16X00	1700	18X30	1950	18X35	1950										

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DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

V uF	160		200		250		350		400		450	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
1	6.3x11	16	6.3x11	16	6.3x11	17	8x12	18	8x12	18	8x12	15
1.5	6.3x11	20	6.3x11	20	6.3x11	24	8x12	24	8x12	23	8x12	20
2.2	6.3x11	25	6.3x11	25	8x12	30	8X16 (10X14)	31	8X16 (10X14)	31	8X16 (10X14)	25
3.3	6.3x11	30	8x12	21	8x12	43	10x14	45	10x14	41	10x17	33
4.7	8x12	38	8x12	26	10x14	53	10x17	55	10x17	55	10x20	42
6.8	8x12	42	10x17	33	10x17	69	10x20	73	10x20	65	13x20	51
10	8X16 (10X14)	48	10x17	43	10x17	90	13x20	95	13x20	85	13x20	67
15	10x17	54	10x20	54	10x20	120	13x25	120	13x20	136	13x25	94
22	10x17	68	10x20	71	13x20	150	13x25	175	13x25	170	13x25	115
33	12x20	86	13x20	100	13x20	200	16x25	220	16x25	220	16x30	155
47	13x20	115	13x20	115	13x25	240	16x30	260	16x30	270	18x30	185
68	13x25	136	13x25	138	16x25	320						
100	16x25	170	16x25	180	16x30	400						
150	18x30	220	18x30	123								
220	18x35	280	18x35	280								

(1) Case Size DxL(mm)

(2) Max allowable ripple current (mArms +105°C,120Hz)