

REB L88-01(RSP)

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

RSP SERIES

Self-supporting, snap and lock terminal type Electrolytic Capacitor with 2000 hour life at 85°C

FEATURES

1. High ripple current capability with smaller size.
2. 2000 hour minimum life at 85°C
3. Each rating has various sizes to expand flexibility in circuit design(see size table)



SPECIFICATION TABLE

1	OPERATING TEMPERATURE RANGE	-40°C ~ +85°C	-25°C ~ +85°C																																			
2	RATED VOLTAGE RANGE	10~250V.DC	315~400V.DC																																			
3	CAPACITANCE TOLERANCE (120Hz)	-20% ~ +20% (20°C)																																				
4	LEAKAGE CURRENT (After applied rated voltage for 5minutes.)	I = 0.020V or 3mA whichever is smaller I = Leakage current(µA), C = Nominal capacitance (µF), V = Rated voltage(V.DC)																																				
5	DISSIPATION FACTOR (tan δ)	Shall be less than the table below <table border="1"> <tr> <th>Cap</th> <th>WV</th> <th>10~25</th> <th>35~50</th> <th>63~100</th> <th>160~250</th> <th>315~400</th> </tr> <tr> <td>~2200</td> <td></td> <td>0.25</td> <td>0.20</td> <td>0.10</td> <td>0.25</td> <td></td> </tr> <tr> <td>3300~6800</td> <td></td> <td>0.35</td> <td>0.30</td> <td>0.30</td> <td></td> <td></td> </tr> <tr> <td>10000~15000</td> <td></td> <td>0.40</td> <td>0.35</td> <td>0.35</td> <td></td> <td></td> </tr> <tr> <td>22000~</td> <td></td> <td>0.55</td> <td>0.45</td> <td></td> <td></td> <td></td> </tr> </table> (20°C 120Hz)		Cap	WV	10~25	35~50	63~100	160~250	315~400	~2200		0.25	0.20	0.10	0.25		3300~6800		0.35	0.30	0.30			10000~15000		0.40	0.35	0.35			22000~		0.55	0.45			
Cap	WV	10~25	35~50	63~100	160~250	315~400																																
~2200		0.25	0.20	0.10	0.25																																	
3300~6800		0.35	0.30	0.30																																		
10000~15000		0.40	0.35	0.35																																		
22000~		0.55	0.45																																			
6	LIFE TEST AT 85°C AND RATED VOLTAGE	TEST HOURS	2000 hours at max.temperature																																			
		LEAKAGE CURRENT	Less than the value given in column 4																																			
		CAPACITANCE CHANGE	Within ±20% of the initial value																																			
		DF(tan δ)	Less than 200% of column 5																																			
7	IMPEDANCE RATIO	WV	10~250																																			
		Z(-25°C)/Z(+20°C)	≤3																																			
		Z(-40°C)/Z(+20°C)	≤12																																			
8	OTHERS	Comply with JIS-C-5141 characteristic W																																				

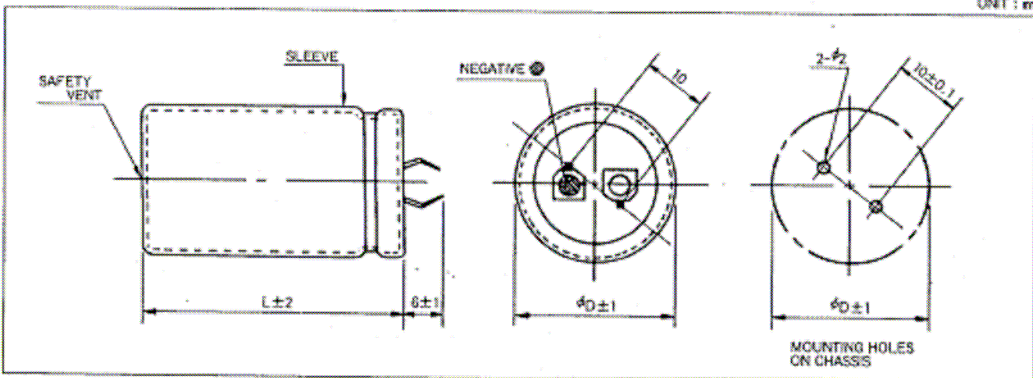
PART NUMBER



Case Code

φD(mm)	22	25	30	35
Case Code	A	B	C	D

DIMENSIONS



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LIST OF STANDARD PRODUCTS

WV Cap(µF) φD	10				16			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
6800					22×25	2.19		
10000	22×25	2.20			22×35	3.07	25×30	3.04
15000	22×35	3.11	25×30	3.08	30×25	3.17		
22000	22×40	3.74	25×35	3.72	30×30	3.77		
33000		25×45	4.05	30×40	4.51	35×35	4.64	

WV Cap(µF) φD	25				35			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
3300					22×25	1.82		
4700	22×25	2.00			22×30	2.01	25×25	1.97
6800	22×30	2.37	25×25	2.32	22×40	2.74	25×35	2.73
10000	22×40	3.01	25×35	3.00	30×30	3.04		
15000		25×45	3.96	30×35	3.83	35×30	3.84	
22000			30×45	4.59	35×35	4.62		

WV Cap(µF) φD	50				63			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
2200	22×25	1.63			22×30	1.70	25×25	1.67
3300	22×35	2.16	25×25	1.98	22×40	2.29	25×35	1.99
4700	22×40	2.23	25×35	2.17	30×25	2.05		
6800		25×45	3.26	30×35	3.16	35×30	3.17	
10000			30×45	3.48	35×35	3.33		
15000				35×45	4.62			

WV Cap(µF) φD	80				100			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
1000					22×30	1.40	25×25	1.38
2200	22×40	2.10	25×35	1.99	30×30	2.01		
3300	22×50	2.53	25×45	2.22	30×35	2.15		
4700			30×45	2.85	35×35	2.73		
6800				35×45	3.73			

WV Cap(µF) φD	160				180			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
220					22×25	0.98		
330	22×30	1.29			22×30	1.29	25×25	1.27
470	22×35	1.66	25×30	1.69	30×25	1.56		
680	22×45	2.23	25×40	2.23	30×30	1.98		
820		25×45	2.57	30×35	2.42	35×30	2.21	
1000		25×45	2.84	30×40	2.83	35×35	2.62	
1500				35×45	3.61			

Ripple Current Arms/120Hz,85°C
Case Size φD²¹ × L²⁰(mm)

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

■ LIST OF STANDARD PRODUCTS

WV Cap(μF) φD	200				250			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
220	22×25 0.98				22×30 1.06	25×25 1.00		
330	22×35 1.30	25×30 1.37			22×40 1.47	25×35 1.47	30×30 1.48	
470	22×45 1.85	25×35 1.75	30×30 1.77			25×45 1.94	30×35 1.89	35×30 1.85
680		25×45 2.34	30×35 2.28	35×30 2.12			30×45 2.53	35×35 2.31
820		25×50 2.70	30×40 2.64	35×30 2.32			30×50 2.90	35×40 2.75
1000			30×45 3.06	35×35 2.99				35×45 3.19

WV Cap(μF) φD	315				350			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
68					22×25 0.46			
82	22×25 0.44				22×30 0.55	25×25 0.53		
100	22×30 0.53	25×25 0.52			22×35 0.67	25×30 0.66		
150	22×35 0.70	25×30 0.69	30×25 0.70		22×45 0.88	25×35 0.82	30×30 0.84	
220	22×45 0.94	25×40 0.94	30×30 0.90			25×45 1.04	30×35 1.00	35×30 1.02
330		25×50 1.21	30×40 1.18	35×30 1.12			30×50 1.43	35×35 1.32
470			30×50 1.60	35×40 1.57				

WV Cap(μF) φD	400			
	φ22 (A)	φ25 (B)	φ30 (C)	φ35 (D)
47	22×25 0.42			
68	22×30 0.52	25×25 0.51		
82	22×30 0.56	25×25 0.54		
100	22×40 0.59	25×30 0.66	30×25 0.65	
150	22×50 0.95	25×40 0.91	30×30 0.88	
220		25×50 1.21	30×40 1.18	35×35 1.19
330			30×50 1.60	35×45 1.62

↑ Ripple Current Arms/120Hz,85°C
Case Size φD² × L²(mm)

■ RMS RIPPLE CURRENT COEFFICIENT

1) Temperature Coefficient

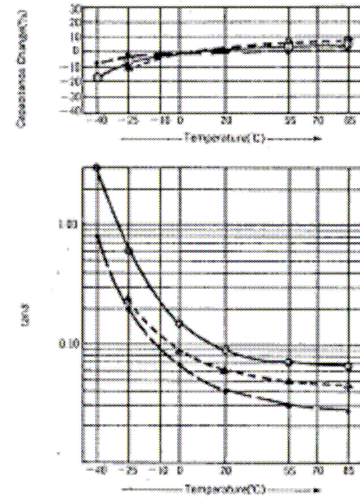
Ambient Temperature(°C)	85	65	40&under
Temperature Coefficient	1.0	1.24	1.60

2) Frequency Coefficient

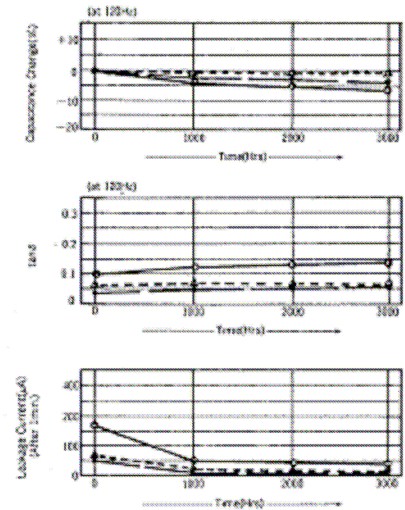
Frequency Coefficient	Frequency(Hz)					
	30~100WV	60	120	500	1k	10k
	160~250WV	0.90	1.00	1:05	1.70	1.15
315~400WV	0.80	1.00	1.20	1.30	1.50	
		0.80	1.00	1.05	1.10	1.15

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

1) Temperature Characteristics



2) Load Life at 85°C



3) Frequency Characteristics

