Rubycon® capacitors

REB L88-04(SXP)

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

■SXP SERIES [-40℃ to +105℃, Self-Supporting Board Insertion]

To meet the demand for more compact electronics equipment, the conventional XLP, XRP series has been made more compact by developing new aluminum foil to come out as"SXP series."

This series is ideal for the compact design of electronics equipment including switching regulated power supplies.

■FEATURES

- Extend the flexibility in circuit design by offering various case dimensions per each rating (see the size table)
- This series, whose terminal spacing size is the same as the conventional series in 10 mm, has been interchangeable with conventional series.

■SPECIFICATION TABLE

1	OPERATING TEMPERATURE RANGE	-40℃~+105℃	-25℃~+105℃
2	RATED VOLTAGE RANGE	10~250V.DC	315~400V.DC
3	CAPACITANCE TOLERANCE (120Hz)	-20%~+20% (20℃)	
4	LEAKAGE CURRENT(μA max.) (After applied rated voltage for 5minutes.)	I =0.02CV or 2mA whichever is smaller I =Leakage current(μA) C=Nominal capacitance(μF) V=Rated voltage(V.DC)	
5	DISSIPATION FACTOR (tanδ)	Shall be less than the table below	

WV / Cap(μF)	10~25	35~50	63~100	160~250	315~400
47~470			0.15	0.10	0.25
680~2200		0.18	0.15	0.10	
3300~6800	0.25	0.20	0.20		
10000~15000	0.40	0.35			
22000~33000	0.50				

(20℃, 120Hz)

6	IMPEDANCE RATIO	WV	10~250 / 315~400
		Z(-25℃)/Z(+20℃)	≦3 / ≦4
		Z(-40℃)/Z(+20℃)	≦12 / — (120Hz)
7	LIFE TEST AT 105℃ AND RATED VOLTAGE	TEST HOURS	1000 hours at+105℃
		LEAKAGE CURRENT	Less than the value given in column 4
		CAPACITANCE CHANGE	Within ±20% of the initial value
		DF(tanδ)	Less than 200% of column 5
8	OTHERS	Comply with JIS-C-5141 Characteristic W	

■PART NUMBER

□□□	SXP	□□□□□	□
Rated Voltage	Series Number	Nominal Capacitance	Case Code

CASE CODE

φD (mm)	22	25	30	35
CASE CODE	A	B	C	D

A-05-11-03

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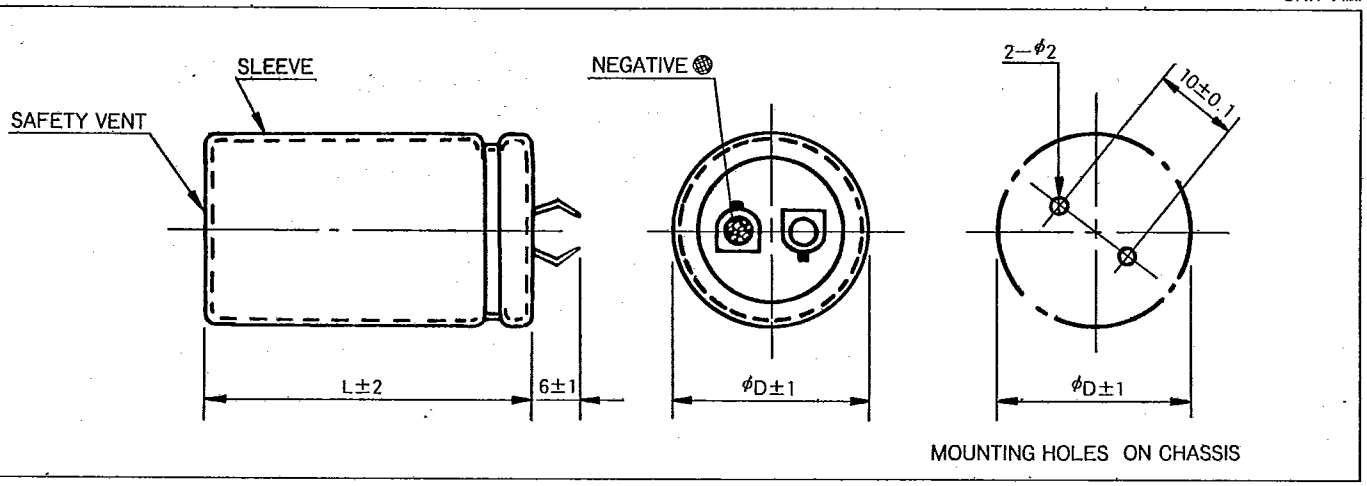
■DIMENSIONS

UNIT : mm



MOUNTING HOLES ON CHASSIS

■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)	
4700									22×25	1.38						
6800	22×25	1.67							22×35	1.92	25×30	1.88				
10000	22×35	1.90	25×30	1.86					22×45	2.12	25×35	1.99	30×30	1.99		
15000	22×45	2.60	25×35	2.44	30×30	2.44					25×45	2.72	30×35	2.59	35×30	2.55
22000			25×45	2.85	30×35	2.72	35×30	2.68					30×45	3.02	35×35	2.84
33000					30×45	3.70	35×40	3.67								

WV / Cap(μF) \ φD	25								35							
	φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)		φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)	
2200									22×25	1.17						
3300	22×25	1.16							22×30	1.40	25×25	1.36				
4700	22×35	1.60	25×25	1.45					22×40	1.89	25×30	1.75	30×25	1.74		
6800	22×40	2.03	25×35	2.01	30×25	1.87			22×50	2.51	25×40	2.38	30×30	2.25		
10000			25×45	2.22	30×35	2.12	35×30	2.08					30×40	2.45	35×35	2.42
15000					30×45	2.88	35×35	2.71							35×40	3.13

WV / Cap(μF) \ φD	50								63							
	φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)		φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)	
1000									22×25	0.90						
1500	22×25	0.97							22×30	1.19	25×25	1.16				
2200	22×30	1.27	25×25	1.23					22×35	1.54	25×30	1.51	30×25	1.50		
3300	22×40	1.69	25×35	1.67	30×25	1.56			22×50	1.89	25×40	1.77	30×30	1.67		
4700	22×50	2.23	25×40	2.11	30×30	2.00	35×30	2.09			25×50	2.33	30×40	2.25	35×30	2.09
6800					30×40	2.70	35×35	2.67					30×50	2.97	35×40	2.82
10000							35×40	3.00								

WV / Cap(μF) \ φD	80								100							
	φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)		φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)	
470									22×25	0.62						
680	22×25	0.74							22×35	0.86	25×30	0.84				
820	22×30	0.88							22×40	1.00	25×30	0.92	30×25	0.92		
1000	22×35	1.04	25×25	0.95					22×45	1.16	25×35	1.09	30×30	1.08		
1500	22×45	1.42	25×35	1.33	30×30	1.33					25×45	1.48	30×35	1.42	35×30	1.40
2200			25×45	1.80	30×35	1.72	35×30	1.69					30×45	1.94	35×40	1.90
3300					30×45	2.14	35×35	2.01								
4700							35×45	2.66								

Ripple Current Arms/120Hz,105℃

Case Size $\phi D^{\pm 1} \times L^{\pm 2}$(mm)

2445 G-04

A-05-11-03

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■LIST OF STANDARD PRODUCTS

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	0.60							22×25	0.60						
330	22×30	0.79	25×25	0.77					22×35	0.85	25×30	0.83	30×25	0.82		
470	22×40	1.07	25×30	0.99	30×25	0.98			22×45	1.13	25×35	1.06	30×30	1.06		
680	22×50	1.42	25×40	1.35	30×30	1.27					25×45	1.42	30×35	1.35	35×30	1.33
820			25×45	1.56	30×35	1.49	35×30	1.46			25×50	1.63	30×40	1.57	35×30	1.46
1000					30×40	1.73	35×35	1.71					30×45	1.82	35×35	1.71
1500							35×45	2.33								

WV / Cap(μF) \ φD	200								250							
	φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)		φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)	
150	22×25	0.49							22×25	0.49						
220	22×30	0.65	25×25	0.63					22×35	0.69	25×25	0.63				
330	22×35	0.85	25×30	0.83	30×25	0.82			22×45	0.94	25×35	0.89	30×30	0.89		
470	22×45	1.13	25×35	1.06	30×30	1.06					25×45	1.18	30×35	1.12	35×30	1.11
680			25×50	1.48	30×35	1.35	35×30	1.33					30×45	1.50	35×35	1.41
820					30×40	1.57	35×35	1.55					30×50	1.73	35×40	1.64
1000					30×50	1.91	35×40	1.81							35×45	1.90

WV / Cap(μF) \ φD	315								350							
	φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)		φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)	
47									22×25	0.27						
68	22×25	0.33							22×30	0.35						
82	22×30	0.39	25×25	0.38					22×30	0.39	25×25	0.38				
100	22×35	0.46	25×30	0.45	30×25	0.45			22×35	0.46	25×30	0.45	30×25	0.45		
150	22×40	0.60	25×35	0.59	30×30	0.59			22×50	0.66	25×40	0.62	30×30	0.59	35×25	0.58
220			25×45	0.80	30×35	0.76	35×30	0.76			25×50	0.84	30×40	0.81	35×30	0.76
330					30×45	1.04	35×35	0.99					30×50	1.09	35×40	1.04
470							35×50	1.37								

WV / Cap(μF) \ φD	400							
	φ22 (A)		φ25 (B)		φ30 (C)		φ35 (D)	
47	22×30	0.29	25×25	0.29				
68	22×35	0.38	25×30	0.37				
82	22×40	0.44	25×35	0.44	30×25	0.41		
100	22×45	0.51	25×35	0.48	30×30	0.48		
150			25×50	0.69	30×35	0.63	35×30	0.62
220					30×50	0.89	35×40	0.84
330							35×50	1.14

Ripple Current Arms/120Hz·105℃

Case Size $\phi D^{\pm 1} \times L^{\pm 2}$(mm)

■RMS RIPPLE CURRENT COEFFICIENT

1)Temperature Coefficient

Ambient Temperature (℃)	105	85	65	45&under
Temperature Coefficient	1.00	1.70	2.12	2.40

2)Frequency Coefficient

Frequency(Hz)		60	120	500	1k	10k
Frequency Coefficient	10~100WV	0.9	1.0	1.05	1.10	1.15
	160~250WV	0.8	1.0	1.20	1.30	1.50
	315~400WV	0.8	1.0	1.05	1.10	1.15

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