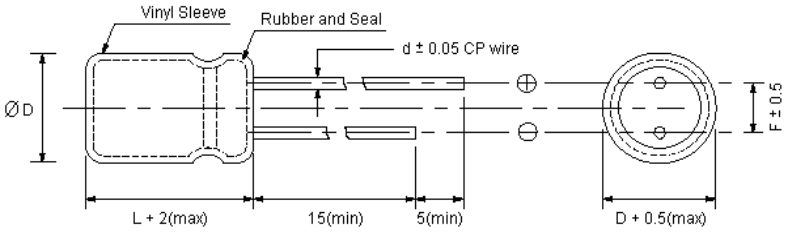
DB LECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR — SR Series

■ FEATURES

- ◆ Load life of 2000 hours at 85°C
- ◆ High value of CV range
- ◆ Standard series for general purpose
- ◆ Applications for TV, video, audio, office and home appliances, etc.

■ OUTLINE



mm

D	5	6.3	8	10	13	16	18	20	22	25
F	2.0	2.5	3.5	5.0		7.5		10.5		12.5
d	0.5		0.6			0.8				1

■ SPECIFICATIONS

Items	Characteristics															
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)															
Rated Working Voltage Range	6.3 ~ 100Vdc							160 ~ 450Vdc								
Operation Temperature	-40°C ~ +85°C							-25°C ~ +85°C								
Leakage Current (25°C)	(After 2 minutes applying the DC working voltage)							(After 5 minutes applying the DC working voltage)								
	I ≤ 0.01CV or 3 (*u*A)							I ≤ 0.03CV + 10 (*u*A)								
	◆ I : Leakage Current (*u*A) ◆ C : Rated Capacitance (*u*F) ◆ V : Working Voltage (V)															
Surge Voltage (25°C)	**W.V.**	**6.3**	**10**	**16**	**25**	**35**	**40**	**50**	**63**	**100**	**160**	**200**	**250**	**350**	**400**	**450**
	S.V.	8	13	20	32	44	50	63	79	125	200	250	300	400	450	500
Dissipation Factor (120Hz, 25°C)	**W.V.**	**6.3**	**10**	**16**	**25**	**35**	**40**	**50**	**63**	**100**	**160**	**200**	**250**	**350**	**400**	**450**
	tan *δ*	0.25	0.20	0.17	0.15	0.12	0.12	0.10	0.10	0.10	0.15	0.15	0.15	0.20	0.20	0.20
	◆ For capacitance exceeding 1000 *u*F, add 0.02 per increment of 1000 *u*F															
Temperature Characteristics	**W.V.**	**6.3**	**10**	**16**	**25**	**35**	**40**	**50**	**63**	**100**	**160**	**200**	**250**	**350**	**400**	**450**
	- 25°C / + 25°C	4	4	3	3	2	2	2	2	2	3	3	3	6	6	6
	- 40°C / + 25°C	10	8	6	4	3	3	3	3	3	4	4	4	6	6	6
	◆ Impedance ratio at 120Hz															
Load Test	After 2000 hours application of WV at +85°C, the capacitor shall meet the following limits:															
	Capacitance Change	≤ ± 20% of initial value														
	tan *δ*	≤ 150% of initial specified value														
	Leakage Current	≤ initial specified value														
Shelf Test	After 1000 hours, no voltage applied at +85°C, the capacitor shall meet the following limits:															
	Capacitance Change	≤ ± 20% of initial value														
	tan *δ*	≤ 150% of initial specified value														
	Leakage Current	≤ 200% of initial specified value														

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■ **DIMENSIONS** **D x L (mm)**

WV / uF	6.3	10	16	25	35	40	50	63	100	160	200	250	350	400	450
0.1						]	5x11	5x11	5x11						
0.22						]	5x11	5x11	5x11						
0.33						]	5x11	5x11	5x11						
0.47						]	5x11	5x11	5x11	5x11	6.3x11	6.3x11	6.3x11	6.3x11	6.3x11
1						]	5x11	5x11	5x11	5x11	6.3x11	6.3x11	6.3x11	8x12	8x12
2.2						]	5x11	5x11	5x11	6.3x12	6.3x12	6.3x12	8x12	8x12	10x12
3.3						]	5x11	5x11	5x11	6.3x12	6.3x12	8x12	10x12	10x12	10x16
4.7						]	5x11	5x11	5x11	6.3x12	8x12	8x12	10x15	10x16	10x20
10			]	5x11	5x11	5x11	5x11	5x11	6.3x11	8x12	10x12	10x15	10x20	10x20	13x25
22			]	5x11	5x11	5x11	5x11	6.3x11	8x12	10x16	10x16	10x20	13x20	13x25	16x26
33			]	5x11	5x11	5x11	6.3x11	8x12	8x14	10x20	10x20	13x20	13x25	16x26	16x31
47		]	5x11	5x11	5x11	6.3x11	6.3x11	8x12	10x16	13x20	13x20	13x25	16x26	16x31	18x35
100	5x11	5x11	5x11	6.3x11	6.3x12	8x12	8x12	10x12	10x20	16x26	16x26	16x31	18x41	22x32	
220	5x11	6.3x11	6.3x12	8x12	8x12	8x16	10x15	10x16	13x25	16x35	18x35	22x36			
330	6.3x11	6.3x12	8x12	8x14	10x12	10x15	10x16	10x20	16x26	20x35	22x36				
470	6.3x12	8x12	8x12	8x16	10x16	10x20	10x20	13x20	16x31	22x36	22x42				
1000	8x14	8x14	10x16	10x20	13x20	13x25	13x25	16x31	20x35						
2200	10x16	10x20	13x20	13x25	16x26	16x31	16x35	18x41	25x43						
3300	10x20	13x20	13x25	16x26	16x35	18x31	18x35	20x41							
4700	13x20	13x25	16x26	16x35	18x35	20x35	22x36	25x43							
6800	16x26	16x26	16x31	18x35	22x42										
10000	16x26	16x35	31x35	22x42	25x43										

■ **PERMISSIBLE RIPPLE CURRENT** **mA (rms) at 120Hz 85°C**

WV / uF	6.3	10	16	25	35	40	50	63	100	160	200	250	350	400	450
0.1						]	10	10	12						
0.22						]	10	10	12						
0.33						]	10	10	12						
0.47						]	12	12	13	12	13	14	15	15	15
1						]	18	18	22	17	19	21	22	22	22
2.2						]	27	28	34	26	32	35	34	34	35
3.3						]	34	36	42	35	37	44	42	45	47
4.7						]	43	45	48	42	50	56	50	63	73
10			]	55	57	61	65	67	80	76	81	90	89	115	110
22			]	86	90	95	98	112	137	127	143	160	150	170	160
33			]	105	110	124	127	135	180	170	185	195	190	200	210
47		]	124	124	128	150	155	185	240	225	235	260	240	260	280
100	130	150	157	195	200	251	260	290	390	380	390	440	410	480	
220	195	248	255	325	370	390	455	470	690	675	740	810			
330	295	310	370	405	460	480	520	690	850	840	880				
470	320	410	440	510	580	700	710	920	1110	1060	1270				
1000	590	610	750	925	1110	1230	1290	1505	1635						
2200	846	1070	1360	1500	1540	1780	2000	2210	2450						
3300	1100	1440	1590	1670	2155	2260	2307	2660							
4700	1390	1735	1915	2225	2405	2730	2800	3010							
6800	1890	1990	2335	2590	3100										
10000	1970	2350	2620	3280	3860										