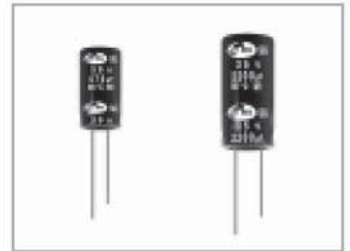


SG - Series

Standard Aluminium Elektrolyt Kondensatoren 85°C Standard Aluminum Electrolytic Capacitors 85°C

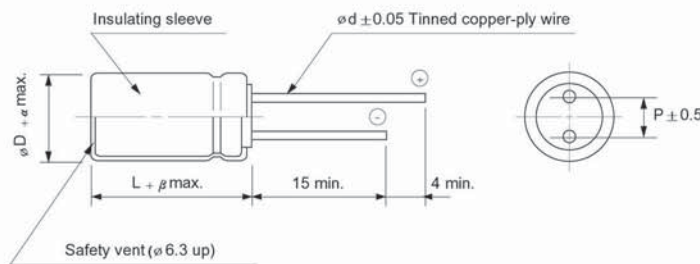


- Standard series for general purposes
- High performance and high reliability
- Load life of 2000 hours at 85°C

Item	Characteristics	
Operating temperature range	WV	6.3~350
	Temperature range	-40 ~ +85 °C
Leakage current max.	WV ≤ 100	I = 0.01CV or 3 μA whichever is greater (after 2 min) I = 0.03CV or 4 μA whichever is greater (after 1 min)
	WV > 100	I = 0.02CV + 15 μA (after 5 min)
Capacitance tolerance	±20% at 120Hz, 20°C	
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000 μF : tan δ increases by 0.02 for each 1000 μF from below value.	
	WV	6.3 10 16 25 35,40 50 63,80 100 160~250 350~450
Low temperature characteristics (Impedance ratio at 120Hz)	tan δ	0.24 0.20 0.16 0.14 0.12 0.10 0.08 0.07 0.15 0.20
	WV	6.3 10 16 25 35~100 160 200~350 400,450
	Z-25°C/Z+20°C	4 3 2 2 2 4 8 16
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current	Less than specified value
	Capacitance change	within ±20% of initial value
Shelf life (at 85°C)	tan δ	Less than 150% of specified value
	After 1000 hours no load test, leakage current, capacitance and tan δ are same as load life value.	

● DRAWING

Unit : mm



φD	5	6.3	8	10	12.5	16	18	22	25.4	
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5	
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8	1.0	1.0	
β	1.0		2.0							
α	0.5				1.0					

● PERMISSIBLE RIPPLE CURRENT MULTIPLIERS

μF	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
~ 47		0.75	1	1.35	1.55	2.0
68 ~ 680		0.80	1	1.25	1.34	1.5
1000 ~		0.85	1	1.10	1.13	1.15

Bestellbeispiel / How To Order

SG 2200uF 35V

SAMWHA Kondensatoren / Capacitors ISO 9001

SG - Series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	6.3	10	16	25	35	40	50	63	80	100	160	200	250	350	400	450
0.1							5 x11 7.2	5 x11 7.8	5 x11 7.8	5 x11 7.8						
0.15							5 x11 8.9	5 x11 9.6	5 x11 9.6	5 x11 9.6						
0.22							5 x11 11	5 x11 12	5 x11 12	5 x11 12						
0.33							5 x11 13	5 x11 14	5 x11 14	5 x11 14						
0.47							5 x11 16	5 x11 17	5 x11 17	5 x11 17	6.3x11 17	6.3x11 17	6.3x11 17	8 x11.5 20	8 x11.5 20	
0.68							5 x11 19	5 x11 20	5 x11 20	5 x11 20	6.3x11 20	6.3x11 20	6.3x11 20	8 x11.5 24	8 x11.5 24	
1.0							5 x11 23	5 x11 25	5 x11 25	5 x11 25	6.3x11 25	6.3x11 25	6.3x11 25	8 x11.5 29	8 x11.5 29	8 x11.5 26
1.5							5 x11 28	5 x11 30	5 x11 30	5 x11 30	6.3x11 30	6.3x11 30	8 x11.5 36	8 x11.5 36	10 x12.5 41	10 x12.5 37
2.2							5 x11 34	5 x11 37	5 x11 37	5 x11 37	6.3x11 37	6.3x11 37	8 x11.5 43	10 x12.5 50	10 x12.5 50	10 x12.5 45
3.3							5 x11 42	5 x11 45	5 x11 45	5 x11 45	8 x11.5 53	8 x11.5 53	10 x12.5 61	10 x12.5 61	10 x12.5 61	10 x16 60
4.7							5 x11 50	5 x11 54	5 x11 54	5 x11 54	8 x11.5 63	10 x12.5 73	10 x12.5 73	10 x12.5 73	10 x16 80	10 x20 78
6.8							5 x11 60	5 x11 65	5 x11 65	5 x11 65	10 x12.5 88	10 x12.5 88	10 x12.5 88	10 x16 96	10 x20 105	10 x20 94
10							5 x11 72	5 x11 78	5 x11 78	6.3x11 90	10 x12.5 107	10 x16 117	10 x16 117	10 x20 128	12.5 x20 150	12.5 x20 134
15							5 x11 89	5 x11 96	6.3x11 110	6.3x11 110	10 x16 143	10 x20 156	10 x20 156	12.5 x20 183	12.5 x20 183	12.5 x25 179
22						5 x11 101	5 x11 108	6.3x11 133	6.3x11 133	8 x11.5 157	10 x20 189	10 x20 189	12.5 x20 222	12.5 x25 242	12.5 x25 242	16 x25 240
33					5 x11 123	6.3x11 142	6.3x11 151	6.3x11 163	8 x11.5 193	10 x12.5 224	12.5 x20 272	12.5 x20 272	12.5 x25 297	12.5 x25 297	16 x25 329	16 x31.5 322
47				5 x11 131	6.3x11 169	6.3x11 169	6.3x11 181	8 x11.5 230	10 x12.5 267	10 x16 293	12.5 x20 325	12.5 x25 354	16 x25 393	16 x25 393	16 x35.5 451	16 x35.5 403
68			5 x11 144	6.3x11 182	6.3x11 203	8 x11.5 240	8 x11.5 256	10 x12.5 321	10 x12.5 321	10 x16 352	12.5 x25 426	16 x25 472	16 x25 472	16 x35.5 542	18 x35.5 582	18 x40 546
100	5 x11 143	5 x11 157	6.3x11 201	6.3x11 220	8 x11.5 291	8 x11.5 291	8 x11.5 311	10 x12.5 390	10 x16 427	10 x20 466	16 x25 573	16 x25 573	16 x31.5 627	18 x40 741	22 x40 815	22 x40 729
150	6.3x11 201	6.3x11 220	6.3x11 246	8 x11.5 318	10 x12.5 414	10 x12.5 414	10 x16 484	10 x16 523	10 x20 571	12.5 x20 670	16 x31.5 768	16 x35.5 806	18 x35.5 864	22 x40 998	25.4 x40 1090	25.4 x50 1064
220	6.3x11 244	6.3x11 267	8 x11.5 352	8 x11.5 386	10 x12.5 501	10 x16 549	10 x16 586	10 x20 691	12.5 x20 811	12.5 x25 885	18 x35.5 1047	18 x40 1098	22 x40 1209	25.4 x50 1440		
330	6.3x11 298	8 x11.5 386	8 x11.5 431	10 x12.5 549	10 x16 672	10 x20 733	10 x20 784	12.5 x20 994	12.5 x25 1083	16 x25 1202	22 x40 1481	22 x40 1481	25.4 x40 1617			
470	8 x11.5 420	8 x11.5 460	10 x12.5 598	10 x16 717	10 x20 875	12.5 x20 1027	12.5 x20 1098	12.5 x25 1293	16 x25 1434	16 x31.5 1569	25.4 x40 1930	25.4 x40 1930	25.4 x50 2105			
680	10 x12.5 587	10 x12.5 643	10 x20 859	10 x20 941	12.5 x20 1235	12.5 x20 1235	12.5 x25 1440	16 x25 1725	16 x31.5 1888	18 x35.5 2125	25.4 x50 2532					
1000	10 x12.5 712	10 x16 854	10 x20 1042	12.5 x20 1340	12.5 x25 1633	16 x25 1812	16 x25 1937	16 x31.5 2289	18 x35.5 2577	22 x40 2976						
1500	10 x20 988	12.5 x20 1259	12.5 x20 1387	12.5 x25 1633	16 x25 1985	16 x31.5 2172	16 x35.5 2402	18 x35.5 2733	22 x40 3157	25.4 x40 3448						
2200	12.5 x20 1340	12.5 x20 1442	12.5 x25 1713	16 x25 2032	16 x31.5 2401	16 x35.5 2519	18 x35.5 2823	22 x40 3420	25.4 x40 3735							
3300	12.5 x20 1571	12.5 x25 1831	16 x25 2194	16 x31.5 2546	18 x35.5 3065	18 x35.5 3065	22 x40 3673	25.4 x40 4176								
4700	16 x25 2179	16 x25 2317	16 x31.5 2718	18 x35.5 3225	22 x40 3951	22 x40 3951	25.4 x40 4458									
6800	16 x25 2440	16 x31.5 2814	18 x35.5 3360	22 x40 4053	25.4 x40 4643	25.4 x50 5065										
10000	16 x31.5 2955	18 x35.5 3475	22 x40 4209	25.4 x40 4759												
15000	18 x35.5 3605	22 x40 4306	25.4 x40 4877													
22000	22 x40 4415	25.4 x40 4947														

Case size $\varnothing D \times L$ (mm)
Ripple current (mA rms) at 85°C, 120Hz