SMH

Aluminum Electrolytic Capacitors

+105°C General Purpose Surface Mount



FEATURES

Small size – Extended Life – Low cost

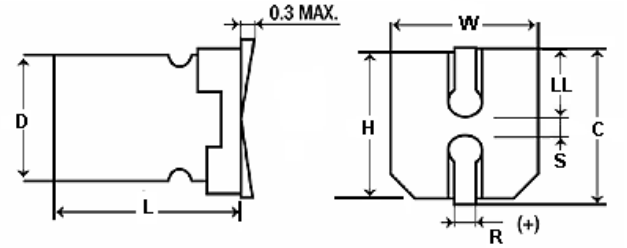
APPLICATIONS

Filtering – Bypass – Coupling – Blocking

Operating Temperature Range		**-55°C to +105°C**						
Capacitance Tolerance		**±20% at 120 Hz, 20°C**						
Surge voltage	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	SVDC	7.9	13	20	32	44	63	
Dissipation Factor	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	tan δ	.28	.24	.2	.16	.14	.12	
Leakage current		**2 Minutes**						
		.01CV or 3uA,Whichever is greater						
Low temperature stability Impedance ratio (120 Hz)	**Rated WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	
	-25°C to +20°C	4	3	2	2	2	2	
	-40°C to +20°C	8	8	4	4	3	3	

Load Life	**1000 hours at 105°C with rated WVDC and ripple current applied**	
	Capacitance change	≤25% of initial measured value
	Dissipation factor	≤200% of maximum specified value
	Leakage current	≤100% of maximum specified value
Shelf Life	**1000 hours at 85°C with no voltage applied**	
	Capacitance change	≤25% of initial measured value
	Dissipation factor	≤200% of maximum specified value
	Leakage current	≤100% of maximum specified value
Resistance to soldering heat	**Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature**	
	Capacitance change	≤10% of initial measured value
	Dissipation factor	≤100% of maximum specified value
	Leakage current	≤100% of maximum specified value

Ripple Current Multipliers	**Frequency (Hz)**						**Temperature (°C)**		
	50	120	400	1k	10k	100k	105	85	70
	0.8	1.0	1.0	1.1	1.3	1.5	1.0	1.0	1.0



D	L	W±0.2	H±0.2	C±0.2	R	LL±0.2	S±0.2
4	5.4 +/-0.2	4.3	4.3	5.0	0.5~0.8	1.8	1.0
5	5.4 +/-0.2	5.3	5.3	6.0	0.5~0.8	2.1	1.4
6.3	5.4 +/-0.2	6.6	6.6	7.3	0.5~0.8	2.4	2.2
6.3	5.8 +/-0.4	6.6	6.6	7.3	0.5~0.8	2.4	2.2
6.3	7.7 +/-0.3	6.6	6.6	7.3	0.5~0.8	2.4	2.2
8	6.2 +/-0.3	8.3	8.3	9.0	0.7~1.0	2.9	3.2
8	10.5+/-0.5	8.3	8.3	9.0	0.7~1.0	2.9	3.2
10	10.5+/-0.5	10	10	11.0	0.7~1.0	3.2	4.6

ILLINOIS CAPACITOR

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SMH

+105°C, General Purpose
1000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +105°C	Dims DxL (mm)
0.1	50	104SMH050M	1989.44	2.3	4x5.4
0.22	50	224SMH050M	904.29	3.4	4x5.4
0.33	50	334SMH050M	602.86	4.1	4x5.4
0.47	50	474SMH050M	423.28	5	4x5.4
1	50	105SMH050M	198.94	10	4x5.4
2.2	50	225SMH050M	90.43	16	4x5.4
3.3	50	335SMH050M	60.286	16	4x5.4
4.7	35	475SMH035M	49.383	22	4x5.4
4.7	50	475SMH050M	42.33	23	5x5.4
10	16	106SMH016M	33.157	28	4x5.4
10	35	106SMH035M	23.21	30	5x5.4
10	50	106SMH050M	19.894	32	6.3x5.4
22	6.3	226SMH6R3M	21.1	29	4x5.4
22	16	226SMH016M	15.07	39	5x5.4
22	35	226SMH035M	10.55	60	6.3x5.4
22	50	226SMH050M	9.04	51	6.3x5.8
33	10	336SMH010M	12.06	34	5x5.4
33	16	336SMH016M	33.158	35	5x5.4
33	25	336SMH025M	8.038	65	6.3x5.4
33	35	336SMH035M	7.033	42	6.3x5.4
33	35	336SMH035MFT	23.211	84	8x6.5
33	50	336SMH050M	6.03	70	6.3x7.7
47	6.3	476SMH6R3M	9.877	46	5x5.4
47	16	476SMH016M	7.055	70	6.3x5.4
47	35	476SMH035M	4.938	80	6.3x6
47	50	476SMH050M	4.23	80	6.3x7.7
100	6.3	107SMH6R3M	4.642	71	6.3x5.4
100	16	107SMH016M	3.3157	70	6.3x5.4
100	25	107SMH025M	2.653	100	6.3x7.7
100	50	107SMH050M	1.989	230	8x10.5
150	10	157SMH010M	2.653	86	6.3x6
150	16	157SMH016M	2.21	95	6.3x7.7
220	16	227SMH016M	1.507	120	6.3x7.7
220	25	227SMH025ML10	1.2057	435	10x10.5
220	25	227SMH025MFE	1.2057	320	8x10.5
220	35	227SMH035M	1.06	190	8x10.5
220	50	227SMH050M	0.904	375	10x10.5
330	6.3	337SMH6R3M	1.407	290	6.3x7.7
330	16	337SMH016ML10	1.005	195	10x10.5
330	25	337SMH025M	0.8038	220	8x10.5
330	35	337SMH035M	0.704	450	10x10.5
470	16	477SMH016M	0.7055	340	8x10.5
470	25	477SMH025M	0.5644	490	10x10.5
680	16	687SMH016M	0.488	310	10x10.5
1000	6.3	108SMH6R3M	0.4642	340	8x10.5
1500	6.3	158SMH6R3M	0.3316	475	10x10.5

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