

# SMH

## Aluminum Electrolytic Capacitors

+105°C General Purpose Surface Mount



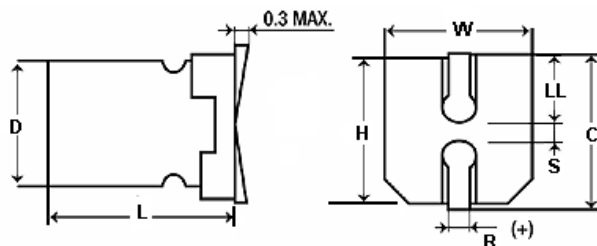
### FEATURES

Small Size - Extended Life - Low Cost

### APPLICATIONS

Filtering - Bypass - Coupling - Blocking

<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>								
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>								
<b>Surge voltage</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>			
	<b>SVDC</b>	7.9	13	20	32	44	63			
<b>Dissipation Factor</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>			
	<b>tan δ</b>	.3	.22	.18	.14	.12	.12			
<b>Leakage current</b>		<b>2 Minutes</b>								
		.01CV or 3uA, Whichever is greater								
<b>Low temperature stability Impedance ratio (120 Hz)</b>	<b>Rated WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>			
	<b>-25°C to +20°C</b>	4	3	2	2	2	2			
	<b>-40°C to +20°C</b>	8	6	4	4	3	3			
<b>Load Life</b>		<b>1000 hours at 105°C with rated WVDC and ripple current applied</b>								
		<b>Capacitance change</b>	≤25% of initial measured value							
		<b>Dissipation factor</b>	≤200% of maximum specified value							
		<b>Leakage current</b>	≤100% of maximum specified value							
<b>Shelf Life</b>		<b>1000 hours at 85°C with no voltage applied</b>								
		<b>Capacitance change</b>	≤25% of initial measured value							
		<b>Dissipation factor</b>	≤200% of maximum specified value							
		<b>Leakage current</b>	≤100% of maximum specified value							
<b>Resistance to soldering heat</b>		<b>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</b>								
		<b>Capacitance change</b>	≤10% of initial measured value							
		<b>Dissipation factor</b>	≤100% of maximum specified value							
		<b>Leakage current</b>	≤100% of maximum specified value							
<b>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>					<b>Temperature (°C)</b>			
		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 +0.1/-0.2	4.3	4.3	5.0	0.5-0.8	1.8	1.0
5	5.4 +0.1/-0.2	5.3	5.3	6.0	0.5-0.8	2.1	1.4
6.3	5.4 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.4	2.2
6.3	5.8 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.4	2.2
6.3	7.7 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.4	2.2
8	6.2 +0.1/-0.2	8.3	8.3	9.0	0.7-1.0	2.9	3.2
8	10.5 +0.1/-0.2	8.3	8.3	9.0	0.7-1.0	2.9	3.2
10	10.5 +0.1/-0.2	10	10	11.0	0.7-1.0	3.2	4.6

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+105°C, General Purpose,  
1000 hours

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

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