

SMH

+105°C General Purpose Surface Mount Aluminum Electrolytic Capacitors



Features

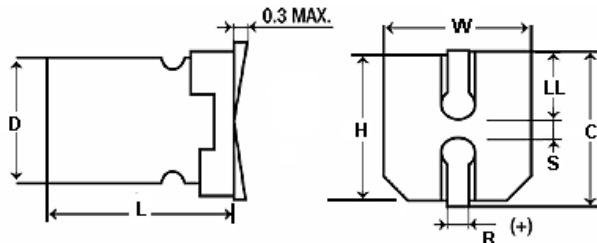
- Standard case sizes
- Low Cost
- Lead Free Leads
- Extended life

Applications

- Bypass
- Coupling
- filtering
- De-Coupling

Specifications

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	.3	.22	.18	.14	.12	.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	6	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	1.7	2.0	



D	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4 +0.1/-0.2	4.3	4.3	5.0	0.5-0.8	1.0
5	5.4 +0.1/-0.2	5.3	5.3	6.0	0.5-0.8	1.4
6.3	5.4 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.2
6.3	5.8 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.2
6.3	7.7 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.2
8	6.2 +0.1/-0.2	8.3	8.3	9.0	0.7-1.0	3.2
8	10.2+0.1/-0.2	8.3	8.3	9.0	0.7-1.0	3.2
10	10.2+0.1/-0.2	10	10	11.0	0.7-1.0	4.6



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+105°C, Extended Life 1000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 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	50.24	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	18	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	22	4x5.4
22	16	226SMH016M	15.07	39	5x5.4
22	35	226SMH035M	10.55	38	6.3x5.4
22	50	226SMH050M	9.04	51	6.3x5.4
33	10	336SMH010M	12.06	34	5x5.4
33	25	336SMH025M	8.038	65	6.3x5.4
33	35	336SMH035M	7.033	42	6.3x5.4
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	6.3x7.7
47	50	476SMH050M	4.23	80	6.3x7.7
100	6.3	107SMH6R3M	4.642	71	6.3x5.4
100	16	107SMH016ML6	3.3157	65	6.3x5.4
100	50	107SMH050M	1.989	230	8x10.5
150	10	157SMH010M	2.653	86	6.3x7.7
150	16	157SMH016M	2.21	95	6.3x7.7
220	16	227SMH016M	1.507	120	6.3x7.7
220	25	227SMH025ML10	1.2057	180	10x10.5
220	35	227SMH035M	1.06	190	8x10.5
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
470	16	477SMH016M	0.7055	340	8x10.5
1000	6.3	108SMH6R3M	0.4642	230	8x10.5