

SML

+85°C General Purpose Surface mount Aluminum Electrolytic Capacitors



Applications

- Filtering
- Coupling
- Bypass

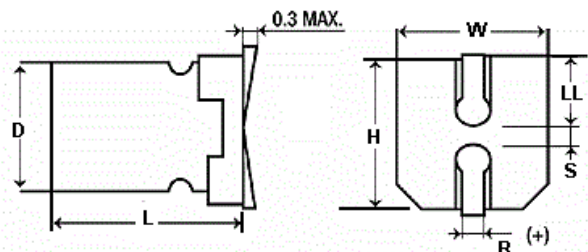
Features

- Standard case sizes
- RoHS compliant
- Lead free

Specifications

Operating Temperature Range		-40°C to +85°C										
Capacitance Tolerance		+20% at 120 Hz, 20°C										
Surge voltage	WVDC	4	6.3	10	16	25	35	50	63	100		
	SVDC	5.2	7.9	13	20	32	44	63	79	125		
Dissipation Factor	WVDC	4	6.3	10	16	25	35	50	63	100		
	Tan δ	.35	.28	.24	.2	.16	.14	.12	.12	.1		
Leakage current		2 Minutes										
		.01CV or 3uA, Whichever is greater										
Low temperature stability Impedance ratio (120 Hz)	Rated WVDC		4	6.3	10	16	25	35	50	63	100	
	-25°C to +20°C	D<8	7	4	3	2	2	2	2	2	2	
		D>8	7	5	3	2	2	2	2	2	2	
	-40°C to +20°C	D<8	15	8	8	4	4	3	3	3	3	
		D>8	15	10	8	6	4	3	3	3	3	
Load Life		2000 hours at 85°C with rated WVDC										
		Capacitance change		<20% 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		<20% initial measured value								
		Dissipation factor		<200% of maximum specified value								
		Insulation resistance		>100% of maximum specified value								
Resistance to soldering heat		Capacitors placed on a 250°C hot plate for 30 seconds with the terminals facing downward. After removal from hot plate and restored to room temperature the capacitors will meet the following.										
		Capacitance change		<10% initial measured value								
		Dissipation factor		<100% of maximum specified value								
		Insulation resistance		>100% of maximum specified value								
Ripple Current Multipliers		Frequency (Hz)					Temperature (°C)					
		50	120	300	1k	10k+	+85	+70	+60			
		0.7	1	1.17	1.36	1.5	1.0	1.3	1.5			

Physical Dimensions



D+0.5	W+0.2	H+0.2	R+1.5	S	LL+0.2
4	4.3	4.3	.65	1.0	1.8
5	5.3	5.3	.65	1.3	2.1
6.3	6.6	6.6	.65	2.2	2.4
8	8.3	8.3	.95	3.1	2.9
10	10.3	10.3	.95	4.5	3.2

D≤6.3, L+0.2, D>6.3, L+0.5



SML

+85°C Surface mount
General Purpose
Aluminum Electrolytic
Capacitor

Cap (μ F)	VDC	PART #	Maximum ESR Ω 120Hz 20C	Maximum RMS ripple current (mA) 120Hz,85C	Dims DxL (mm)
0.1	50	104SML050MD4	1989.437	3.2	4x5.4
0.22	50	224SML050MD4	904.289	4.7	4x5.4
0.33	50	334SML050MD4	602.860	5.7	4x5.4
0.47	50	474SML050MD4	423.284	6.8	4x5.4
1	50	105SML050MD4	198.944	10	4x5.4
2.2	50	225SML050MD4	90.429	15	4x5.4
3.3	50	335SML050M	60.286	18	4x5.4
3.3	100	335SML100M	50.238	28	6.3x5.4
4.7	35	475SML035M	49.383	20	4x5.4
4.7	50	475SML050M	42.328	24	4x5.4
4.7	50	475SML050MD5	42.328	25	5x5.4
4.7	100	475SML100MD8	35.274	60	8x10.5
10	16	106SML016M	33.157	26	4x5.4
10	35	106SML035MD4	23.210	24	4x5.4
10	35	106SML035M	23.210	34	5x5.4
10	50	106SML050MD5	19.894	41	5x5.4
10	50	106SML050M	19.894	43	6.3x5.4
10	63	106SML063M	19.894	34	6.3x5.4
10	100	106SML100MD8	16.579	40	8x6.5
22	6.3	226SML6R3M	21.100	31	4x5.4
22	16	226SML016MD4	15.071	30	4x5.4
22	16	226SML016M	15.071	44	5x5.4
22	25	226SML025MD5	12.057	38	5x5.4
22	35	226SML035M	10.550	59	6.3x5.4
22	50	226SML050M	9.043	71	6.3x5.4
22	63	226SML063MD8	9.043	77	8x10.5
22	100	226SML100M	7.536	77	8x10.5
33	4	336SML004M	17.583	31	4x5.4
33	10	336SML010MD4	12.057	34	4x5.4
33	10	336SML010M	10.048	48	5x5.4
33	25	336SML025MD5	8.038	46	5x5.4
33	25	336SML025M	8.038	67	6.3x5.4
33	35	336SML035M	7.033	65	6.3x5.4
33	50	336SML050M	6.029	94	6.3x7.7
33	50	336SML050MD8	6.029	95	8x6.2
33	63	336SML063M	6.029	117	8x10.5
33	100	336SML100M	5.024	100	8x10.5
47	4	476SML004M	12.346	37	4x5.4
47	6.3	476SML6R3MD4	9.877	40	4x5.4
47	6.3	476SML6R3M	9.877	52	5x5.4
47	16	476SML016MD5	7.055	52	5x5.4
47	16	476SML016M	7.055	75	6.3x5.4

Cap (μ F)	VDC	PART #	Maximum ESR Ω 120Hz 20C	Maximum RMS ripple current (mA) 120Hz,85C	Dims DxL (mm)
47	25	476SML025M	5.644	70	6.3x5.4
47	35	476SML035M	4.938	70	6.3x5.4
47	35	476SML035MD8	4.938	105	8x6.2
47	50	476SML050M	4.233	105	6.3x7.7
47	50	476SML050MD8	4.233	140	8x10.5
47	100	476SML100M	3.527	130	10x10.5
68	6.3	686SML6R3M	6.826	50	5x5.4
68	16	686SML016M	4.876	78	6.3x5.4
100	4	107SML004M	5.803	63	5x5.4
100	6.3	107SML6R3M	4.642	47	5x5.4
100	16	107SML016M	3.316	103	6.3x5.4
100	25	107SML025M	2.653	145	8x6.2
100	35	107SML035M	2.321	132	6.3x7.7
100	50	107SML050M	1.989	200	8x10.5
100	50	107SML050MD10	1.989	250	10x10.5
100	63	107SML063M	1.989	280	10x10.5
150	4	157SML004M	3.868	84	6.3x5.4
150	10	157SML010M	2.653	88	6.3x5.4
150	16	157SML016M	2.210	135	6.3x7.7
150	35	157SML035MD8	1.547	220	8x10.5
220	4	227SML004M	2.638	110	6.3x5.4
220	6.3	227SML6R3M	2.110	91	6.3x5.4
220	10	227SML010M	1.809	250	8x6.2
220	16	227SML016M	1.507	162	6.3x7.7
220	16	227SML016MD8	1.507	280	8x10.5
220	25	227SML025MD8	1.206	310	8x10.5
220	25	227SML025M	1.206	250	10x7.7
220	35	227SML035M	1.055	200	8x10.5
220	35	227SML035MD10	1.055	310	10x10.5
220	50	227SML050M	0.904	320	10x10.5
330	6.3	337SML6R3M	1.407	188	6.3x7.7
330	6.3	337SML6R3MD8	1.407	190	8x6.2
330	25	337SML025M	0.804	270	8x10.5
330	25	337SML025MD10	0.804	340	10x10.5
330	35	337SML035M	0.703	360	10x10.5
470	4	477SML004M	1.235	150	6.3x7.7
470	6.3	477SML6R3M	0.988	380	8x10.5
470	10	477SML010MD8	0.847	390	8x10.5
470	16	477SML016M	0.705	350	8x10.5
470	16	477SML016MD10	0.705	420	10x10.5
1000	4	108SML004MD8	0.580	300	8x10.5
1000	6.3	108SML6R3M	0.464	370	8x10.5

