

# SVH

# 105°C LONG LIFE SURFACE MOUNT CAPACITORS

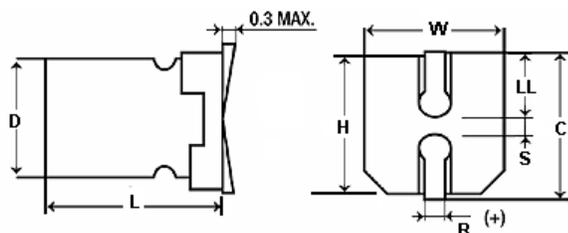
## FEATURES

Small size – Extended Life – Low cost

## APPLICATIONS

Filtering – Bypass – Coupling – Blocking

<b>Operating Temperature Range</b>		<b>-40°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	.24	.2	.16	.14	.14
<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>2000 hours at 105°C with rated WVDC</b>					
		<b>Capacitance change</b>	≤30% of initial measured value				
		<b>Dissipation factor</b>	≤300% of maximum specified value				
		<b>Leakage current</b>	≤100% of maximum specified value				
<b>Shelf Life</b>		<b>1000 hours at 105°C with no voltage applied</b>					
		<b>Capacitance change</b>	≤30% of initial measured value				
		<b>Dissipation factor</b>	≤300% 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>					
		50	120	400	1k	10k	100k
		0.7	1.0	1.17	1.38	1.5	1.5



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	7.7 +0.1/-0.2	6.6	6.6	7.3	0.5-0.8	2.4	2.2
8	10.5+0.1/-0.2	8.3	8.3	9.0	0.7-1.0	2.9	3.1
10	10.5+0.1/-0.2	10.3	10.3	11.0	0.7-1.0	3.2	4.5



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**SVH****105°C LONG LIFE  
SURFACE MOUNT  
CAPACITORS**

Cap (uF)	WVDC	IC PART #	Maximum ESR ( $\Omega$ ) 120 Hz 20°C	Ripple current (mA) 120Hz, 105°C	Dimensions DxL (mm)
1	50	105SVH050MCR	232.10	6.3	4x5.4
2.2	50	225SVH050MCR	105.50	12	4x5.4
3.3	50	335SVH050MCR	70.33	17	4x5.4
4.7	35	475SVH035MCR	49.38	20	4x5.4
4.7	50	475SVH050MDR	49.38	21	5x5.4
10	25	106SVH025MCR	26.53	20	4x5.4
10	50	106SVH050MER	23.21	35	6.3x5.4
22	6.3	226SVH6R3MCR	22.61	29	4x5.4
22	25	226SVH025MDR	12.06	35	5x5.4
22	35	226SVH035MER	10.55	52	6.3x5.4
22	50	226SVH050MEL	10.55	50	6.3x7.7
33	10	336SVH010MDR	12.06	40	5x5.4
33	25	336SVH025MER	8.04	50	6.3x5.4
33	50	336SVH050MEL	7.03	80	6.3x7.7
47	6.3	476SVH6R3MDR	10.58	350	5x5.4
47	25	476SVH025MER	5.64	65	6.3x5.4
47	50	476SVH050MEL	4.94	95	6.3x7.7
100	16	107SVH016MER	3.32	90	6.3x5.4
100	35	107SVH035MEL	2.65	140	6.3x7.7
100	50	107SVH050MFE	2.32	99	8x10.5
150	6.3	157SVH6R3MER	3.32	86	6.3x5.4
150	25	157SVH025MEL	1.77	91	6.3x7.7
150	35	157SVH035MFE	1.55	260	8x10.5
150	50	157SVH050MGE	1.55	250	10x10.5
220	16	227SVH016MEL	1.51	170	6.3x7.7
220	25	227SVH025MFE	1.21	230	8x10.5
220	50	227SVH050MGE	1.06	45	10x10.5
330	25	337SVH025MFE	0.80	25	8x10.5
330	35	337SVH035MGE	0.70	450	10x10.5
470	16	477SVH016MFE	0.71	360	8x10.5
470	25	477SVH025MGE	0.56	490	10x10.5
680	6.3	687SVH6R3MFE	0.73	340	8x10.5
680	25	687SVH025MGE	0.39	490	10x10.5
1000	10	108SVH010MGE	0.40	350	10x10.5

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