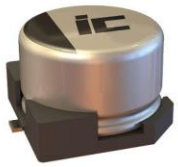
SVH

Surface Mount Capacitors

+105°C Long Life



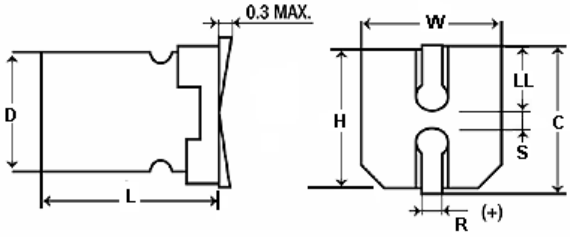
FEATURES	Small size – Extended Life – Low cost
APPLICATIONS	Filtering – Bypass – Coupling – Blocking

Operating Temperature Range		**-40°C to +105°C (6.3 to 100WVDC) -25°C to +105°C (160 to 450WVDC)**												
Capacitance Tolerance		**±20% at 120 Hz, 20°C**												
Surge voltage	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	**63**	**100**	**160**	**200**	**250**	**400**	**450**
	SVDC	7.9	13	20	32	44	63	79	125	200	250	300	450	500
Dissipation Factor	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	**63**	**100**	**160**	**200**	**250**	**400**	**450**
	tan δ	.3	.24	.2	.16	.14	.14	.18	.18	.2	.2	.2	.25	.25
	D≥12.5	.35	.3	.34	.26	.22	.18	.14	.18	.2	.2	.2	.25	.25
Leakage current		**2 Minutes .01CV or 3μA,Whichever is greater**												

Low temperature stability Impedance ratio (120 Hz)	**Rated WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	**63**	**100**	**160-450**
	-25°C/+20°C	4	3	2	2	2	2	2	2	4
	-40°C/+20°C	8	8	4	4	3	3	3	3	-

Load Life	**2000 hours at 105°C with rated WVDC**	
	Capacitance change	≤30% of initial measured value
	Dissipation factor	≤300% of maximum specified value
	Leakage current	≤100% of maximum specified value
Shelf Life	**1000 hours at 105°C with no voltage applied**	
	Capacitance change	≤30% of initial measured value
	Dissipation factor	≤300% 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)**					
	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
4.0	5.4 +/-0.3	4.3	4.3	5.0	0.5~0.8	1.8	1.0
5.0	5.4 +/-0.3	5.3	5.3	6.0	0.5~0.8	2.1	1.4
6.3	5.4 +/-0.3	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
8.0	10.5+/-0.3	8.3	8.3	9.0	0.7~1.0	2.9	3.1
10.0	10.5+/-0.3	10.3	10.3	11.0	0.7~1.0	3.2	4.5
12.5	13.5+/-0.5	13.0	13.0	15.0	0.7~1.1	4.8	4.4
12.5	16.0+/-0.5	13.0	13.0	15.0	0.7~1.1	4.8	4.4

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SVH

+105°C, Long Life, 2000 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	4.7	475SVH6R3MCR	10.82	31	4x5.4
6.3	22	226SVH6R3MCR	22.61	22	4x5.4
6.3	33	336SVH6R3MCR	15.07	29	4x5.4
6.3	47	476SVH6R3MDR	10.58	36	5x5.4
6.3	150	157SVH6R3MGE	3.32	86	6.3x5.4
6.3	220	227SVH6R3MER	2.261	80	6.3x5.4
6.3	330	337SVH6R3MEL	1.507	140	6.3x7.7
6.3	680	687SVH6R3MFE	0.73	340	8x10.5
6.3	1500	158SVH6R3MGE	0.39	460	10x10.5
10	33	336SVH010MDR	12.06	35	5x5.4
10	220	227SVH010MEL	1.8086	120	6.3x7.7
10	1000	108SVH010MGE	0.4	450	10x10.5
10	2200	228SVH010MTP	0.23	680	12.5x13.5
16	22	226SVH016MCR	12.06	29	4x5.4
16	33	336SVH016MDR	8.04	40	5x5.4
16	47	476SVH016MDR	5.6438	42	5x5.4
16	100	107SVH016MER	3.32	60	6.3x5.4
16	220	227SVH016MEL	1.51	105	6.3x7.7
16	470	477SVH016MFE	0.71	240	8x10.5
25	10	106SVH025MCR	26.53	13	4x5.4
25	22	226SVH025MDR	12.06	23	5x5.4
25	33	336SVH025MER	8.04	38	6.3x5.4
25	47	476SVH025MER	5.64	48	6.3x5.4
25	100	107SVH025MEL	2.65	100	6.3x7.7
25	100	107SVH025MEL	2.6526	100	6.3x7.7
25	150	157SVH025MEL	1.77	91	6.3x7.7
25	220	227SVH025MFE	1.21	240	8x10.5
25	330	337SVH025MFE	0.8	320	8x10.5
25	470	477SVH025MGE	0.56	450	10x10.5
25	680	687SVH025MGE	0.39	490	10x10.5
25	1500	158SVH025MTBW	0.29	590	12.5x16
35	4.7	475SVH035MCR	49.38	16	4x5.4
35	6.8	685SVH035MCR	31.13	25	4x5.4
35	22	226SVH035MER	10.55	44	6.3x5.4
35	100	107SVH035MEL	2.65	100	6.3x7.7
35	150	157SVH035MFE	1.55	260	8x10.5
35	220	227SVH035MFE	1.5071	170	8x10.5
35	330	337SVH035MGE	0.7	410	10x10.5
35	470	477SVH035MTP	0.78	520	12.5x13.5
35	680	687SVH035MTP	0.54	590	12.5x13.5
50	1	105SVH050MCR	232.1	6.3	4x5.4
50	2.2	225SVH050MCR	105.5	11	4x5.4
50	3.3	335SVH050MCR	70.33	14	4x5.4
50	4.7	475SVH050MDR	49.38	19	5x5.4
50	10	106SVH050MER	23.21	30	6.3x5.4
50	22	226SVH050MEL	10.55	51	6.3x7.7
50	33	336SVH050MEL	7.03	60	6.3x7.7
50	47	476SVH050MEL	4.94	63	6.3x7.7
50	100	107SVH050MFE	2.82	230	8x10.5
50	150	157SVH050MGE	1.55	250	10x10.5
50	220	227SVH050MGE	1.06	375	10x10.5
50	330	337SVH050MTP	0.9043	490	12.5x13.5
50	330	337SVH050MTP	0.9043	490	12.5x13.5
50	470	477SVH050MTBW	0.5644	550	12.5x16
63	47	476SVH063MFE	6.35	170	8x10.5
63	100	107SVH063MGE	2.98	340	10x10.5
63	150	157SVH063MGE	1.99	360	10x10.5
63	220	227SVH063MTP	1.3564	470	12.5x13.5

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100	22	226SVH100MFE	13.56	100	8x10.5
100	33	336SVH100MFE	9.04	120	8x10.5
100	33	336SVH100MGE	9.04	150	10x10.5
100	47	476SVH100MFE	6.35	170	8x10.5
100	47	476SVH100MGE	6.35	250	10x10.5
100	47	476SVH100MTP	6.3493	250	12.5x13.5
100	100	107SVH100MTP	2.98	300	12.5x13.5
160	33	336SVH160MTP	10.0477	95	12.5x13.5
200	10	106SVH200MTP	33.1573	80	12.5x13.5
200	22	226SVH200MTBW	15.0715	110	12.5x16
200	33	336SVH200MTBW	10.0477	120	12.5x16
250	22	226SVH250MTP	15.0715	105	12.5x13.5
400	10	106SVH400MTP	41.4466	50	12.5x13.5
450	3.3	335SVH450MTP	125.6	40	12.5x13.5
450	4.7	475SVH450MTP	88.1843	45	12.5x13.5
450	10	106SVH450MTBW	41.4466	75	12.5x16

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