

AVD

105c LONG LIFE LOW
IMPEDANCE SURFACE
MOUNT CAPACITORS

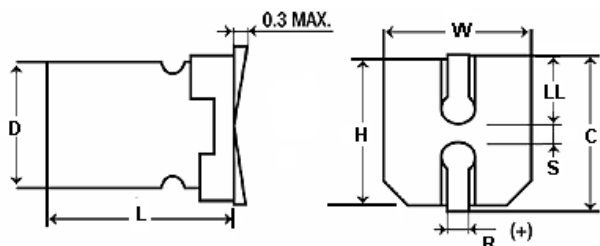
FEATURES

Small size – Long Life – Low Impedance

APPLICATIONS

Filtering – Bypass/ Coupling – De-Coupling

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
	D<6.3mm	.26	.2	.16	.14	.12	.12
	D>8mm	.28	.24	.2	.16	.14	.14
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	3	2	2	2	2	2
	-40°C to +20°C	5	4	4	3	3	3
Load Life	5000 hours(2000 hours for D=4,5,6,3mm) 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 85°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	300	1k	100k		
	.35	.5	.64	0.83	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	1.3
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	10.2+0.1/-0.2	8.3	8.3	9.0	0.7-1.0	2.9	3.1
10	10.2+0.1/-0.2	10.3	10.3	11.0	0.7-1.0	3.2	4.5

ILLINOIS CAPACITOR

Your Global Source for World-Class Capacitors

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Cap (uF)	VDC	PART #	Maximum ESR Ω 120Hz 20°C	Maximum Impedance Ω 100kHz 20°C	Maximum RMS ripple current (mA) 100kHz, 105°C	Dims DxL (mm)
1	50	105AVD050MCR	198.94	5	30	4x5.4
2.2	50	225AVD050MCR	90.43	5	30	4x5.4
3.3	50	335AVD050MCR	60.29	5	30	4x5.4
4.7	35	475AVD035MCR	42.33	1.8	80	4x5.4
4.7	50	475AVD050MDR	42.33	1.52	85	5x5.4
10	25	106AVD025MCR	23.21	1.8	80	4x5.4
10	35	106AVD035MDR	19.89	0.76	150	5x5.4
10	50	106AVD050MER	19.89	0.88	165	6.3x5.4
22	10	226AVD010MCR	15.07	1.8	80	4x5.4
22	35	226AVD035MDR	9.04	0.76	150	5x5.4
22	50	226AVD050MER	9.04	0.88	165	6.3x5.4
33	10	336AVD010MDR	10.05	0.76	150	5x5.4
33	35	336AVD035MER	6.03	0.44	230	6.3x5.4
33	50	336AVD050MEL	6.03	0.68	185	6.3x7.7
47	6.3	476AVD6R3MDR	9.17	0.76	150	5x5.4
47	25	476AVD025MER	4.94	0.44	230	6.3x5.4
47	35	476AVD035MEL	4.23	0.34	280	6.3x7.7
47	50	476AVD050MFE	4.94	0.34	350	8x10.5
100	16	107AVD016MER	2.65	0.44	230	6.3x5.4
100	25	107AVD025MEL	2.32	0.34	280	6.3x7.7
100	35	107AVD035MFE	2.32	0.17	600	8x10.5
100	50	107AVD050MGE	2.32	0.18	670	10x10.5
220	6.3	227AVD6R3MER	1.96	0.44	230	6.3x5.4
220	16	227AVD016MEL	1.36	0.34	280	6.3x7.7
220	25	227AVD025MFE	1.21	0.17	600	8x10.5
220	35	227AVD035MGE	1.06	0.09	850	10x10.5
330	6.3	337AVD6R3MFE	1.41	0.34	280	6.3x7.7
330	16	337AVD016MFE	1.00	0.17	600	8x10.5
330	25	337AVD025MGE	0.80	0.09	850	10x10.5
470	10	477AVD010MFE	0.85	0.17	600	8x10.5
470	16	477AVD016MGE	0.71	0.09	850	10x10.5
1000	10	108AVD010MGE	0.40	0.09	850	10x10.5



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