LCA

+ 85°C Low Leakage Current Aluminum Electrolytic Capacitors

FEATURES

- *Wide Capacitance Range (.1 to 100 µF)*
- *Standard Case Sizes*
- *Operating Voltage Range: 6.3 WVDC to 50 WVDC*

SPECIFICATIONS

Capacitance Tolerance		**±20% at 120Hz, 20°C**							
Operating Temperature Range		**-40°C to +85°C**							
Dissipation Factor 120Hz, 20°C (Max) tan δ	**WVDC**	6.3	10	16	25	35	50		
	tanδ	.24	.20	.16	.14	.12	.1		
Leakage current	**Time**	2 minutes							
		.002 CV or .5µA, whichever is greater							
Impedance Ratio at Low Temperature (120Hz)	**-25°C/20°C**	4	3	2	2	2	2		
	-40°C/20°C	8	6	4	4	3	3		
Load Life	**2,000 hours at 85°C with rated voltage**								
	Capacitance change Dissipation factor Leakage current	≤ 25% of initial measured values ≤ 200% initial specified value ≤100% Initial specified value							
Shelf Life	**1000 hours at 85°C with no applied voltage.**								
	Capacitance change Dissipation factor Leakage current	≤ 20% of initial measured values ≤ Initial specified value ≤ Initial specified value							
Resistance to Soldering Heat	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.								
Ripple Current Multipliers	**Frequency (Hz)**						**Temperature (°C)**		
	50	120	400	1K	10K	100K	85°C	70°C	65°C
	.8	1.0	1.0	1.1	1.3	1.5	1.0	1.35	1.35

ILLINOIS CAPACITOR, INC. 3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • www.illcap.com

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STANDARD PARTS LISTING

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum E.S.R. Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +85°C	Dimensions DxL (mm)
0.1	50	**104LCA050M**	1657.864	1	4x5.4
0.22	50	**224LCA050M**	753.575	2.3	4x5.4
0.33	50	**334LCA050M**	502.383	3.5	4x5.4
0.47	50	**474LCA050M**	352.737	5	4x5.4
1	50	**105LCA050M**	165.786	10	4x5.4
2.2	50	**225LCA050M**	75.357	15	4x5.4
3.3	50	**335LCA050M**	50.238	18	4x5.4
4.7	35	**475LCA035M**	42.328	20	4x5.4
4.7	50	**475LCA050M**	35.274	23	5x5.4
10	16	**106LCA016M**	26.526	25	4x5.4

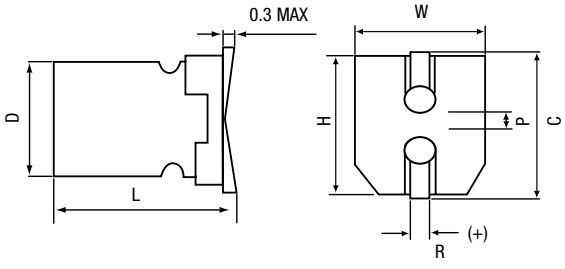
Capacitance (µF)	WVDC	IC PART NUMBER	Maximum E.S.R. Ω 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +85°C	Dimensions DxL (mm)
10	35	**106LCA035M**	19.894	30	5x5.4
10	50	**106LCA050M**	16.579	34	6.3x5.4
22	6.3	**226LCA6R3M**	18.086	31	4x5.4
22	16	**226LCA016M**	12.057	39	5x5.4
22	35	**226LCA035M**	9.043	54	6.3x5.4
33	10	**336LCA010M**	10.048	43	5x5.4
33	25	**336LCA025M**	7.033	63	6.3x5.4
47	6.3	**476LCA6R3M**	8.466	47	5x5.4
47	16	**476LCA016M**	5.644	68	6.3x5.4
100	10	**107LCA010M**	3.316	76	6.3x5.4

PHYSICAL DIMENSIONS

WVDC (SV) / (µF)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1	→	→	→	→	→	4x5.4
0.22	→	→	→	→	→	4x5.4
0.33	→	→	→	→	→	4x5.4
0.47	→	→	→	→	→	4x5.4
1	→	→	→	→	→	4x5.4
2.2	→	→	→	→	→	4x5.4
3.3	→	→	→	→	→	4x5.4
4.7	→	→	→	→	4x5.4	5x5.4
10	→	→	4x5.4	→	5x5.4	6.3x5.4
22	4x5.4	→	5x5.4	→	6.3x5.4	
33	→	4x5.4	→	5x5.4		
47	5x5.4	→	6.3x5.4			
100	→	6.3x5.4				

DxL (mm)

DIMENSIONS



$D_{+0.5\ MAX}$	$L_{\pm0.1,\ \pm0.2}$	$W_{\pm0.2}$	$H_{\pm0.3}$	$C_{\pm0.3}$	R	$P_{\pm0.2}$
4	5.4	4.3	4.3	5.0	0.5~0.8	1.0
5	5.4	5.3	5.3	6.0	0.5~0.8	1.5
6.3	5.4	6.6	6.6	7.3	0.5~0.8	2.1

(mm)

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