

# LCA

## + 85°C Low Leakage Current Aluminum Electrolytic Capacitors



### FEATURES

- Wide Capacitance Range (.1 to 100  $\mu\text{F}$ )
- Standard Case Sizes
- Operating Voltage Range: 6.3 WVDC to 50 WVDC

### SPECIFICATIONS

Capacitance Tolerance		$\pm 20\%$ at 120Hz, 20°C								
Operating Temperature Range		-40°C to +85°C								
Dissipation Factor 120Hz, 20°C (Max) tan $\delta$	WVDC	6.3	10	16	25	35	50			
	tan $\delta$	.24	.20	.16	.14	.12	.1			
Leakage current	Time	2 minutes								
		.002 CV or .5 $\mu\text{A}$ , 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	$\leq 25\%$ of initial measured values $\leq 200\%$ initial specified value $\leq 100\%$ Initial specified value								
Shelf Life	1000 hours at 85°C with no applied voltage.									
	Capacitance change Dissipation factor Leakage current	$\leq 20\%$ of initial measured values $\leq$ Initial specified value $\leq$ 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	



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+85°C Low Leakage  
Current Aluminum  
Electrolytic Capacitors

## STANDARD PARTS LISTING

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

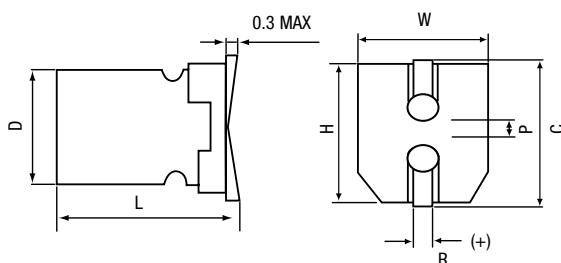
Capacitance ( $\mu$ F)	WVDC	<b>IC® PART NUMBER</b>	Maximum E.S.R. $\Omega$ 120Hz, +20°C	Maximum RMS Ripple Current (mA) at 120 Hz, +85°C	Dimensions DxL (mm)
10	35	<b>106LCA035M</b>	19.894	30	5x5.4
10	50	<b>106LCA050M</b>	16.579	34	6.3x5.4
22	6.3	<b>226LCA6R3M</b>	18.086	31	4x5.4
22	16	<b>226LCA016M</b>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

## PHYSICAL DIMENSIONS

WVDC (SV) ( $\mu$ F)	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 <sub>+0.5 MAX</sub>	L <sub>=0.1, ±0.2</sub>	W <sub>=0.2</sub>	H <sub>=0.3</sub>	C <sub>=0.3</sub>	R	P <sub>±0.2</sub>
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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