



Micro Miniature Aluminum Electrolytic Capacitors

L Series

FEATURES

- 5mm height micro miniature size conserves space
- Ideal for high density circuits and miniaturized boards
- Satisfies characteristic W of JIS-C-5141 standard
- RoHS compliant



CHARACTERISTICS

Item	Characteristics							
Operating Temperature Range	-40°C ~ +85°C							
Capacitance Tolerance	±20% at +20°C, 120Hz							
Leakage Current	I = 0.01CWV or 3μA whichever is greater after 2 minutes of applied rated DC working voltage at 20°C Where: C = rated capacitance in μF; WV = rated DC working voltage							
Dissipation Factor (Tan δ, at +20°C 120Hz)	Working voltage (WV)	4	6.3	10	16	25	35	50
	Tan δ	0.35	0.25	0.20	0.17	0.15	0.13	0.10
Surge Voltage	Working voltage (WV)	4	6.3	10	16	25	35	50
	Surge voltage (SV)	5	8	13	20	32	44	63
Low Temperature Characteristics	Working voltage (WV)	4	6.3	10	16	25	35	50
	Imp. ratio @ 120Hz	Z-25°C/Z+20°C	7	6	4	3	2	2
		Z-40°C/Z+20°C	15	12	8	6	4	4
Life Test	When returned to +20°C after 1,000 hours application of working voltage at +85°C, the capacitor will meet the following limits: Capacitance change is ≤ ±30% of initial value for 4WV ~ 6.3WV and is ≤ ±25% of initial value for 10WV ~ 50WV; tan δ is < 200% of initial specified value; leakage current is ≤ initial specified value							
Shelf Test	When returned to +20°C after 1,000 hours at +85°C with no voltage applied, the capacitor will meet the following limits: Capacitance change is ≤ ±30% of initial value for 4WV ~ 6.3WV and is ≤ ±25% of initial value for 10WV ~ 50WV; tan δ is < 200% of initial specified value; leakage current is < 200% initial specified value							

PART NUMBERING SYSTEM

1	4	0	—	L	1	0	V	1	0	0	—	R	C
Prefix				Series	Voltage Actual Value			Capacitance (μF) Actual Value				Suffix (RoHS compliant)	

RIPPLE CURRENT AND FREQUENCY MULTIPLIERS

Capacitance (μF)	Frequency (Hz)				
	60 (50)	120	500	1K	≥10K
<47	0.75	1.0	1.15	1.34	1.50
47 ~ 220	0.80	1.0	1.08	1.20	1.30

RIPPLE CURRENT AND TEMPERATURE MULTIPLIERS

Temperature (°C)	70	85
Multiplier	1.27	1.0

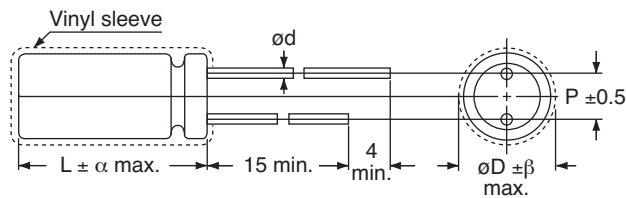
Specifications are subject to change without notice. No liability or warranty implied by this information. Environmental compliance based on producer documentation.



Micro Miniature Aluminum Electrolytic Capacitors

L Series

■ DIMENSIONS AND PERMISSIBLE RIPPLE CURRENT



Lead Spacing and Diameter (mm)

øD	3	4	5	6.3	8
P	1.0	1.5	2.0	2.5	2.5
ød	0.4	0.45	0.45	0.45	0.45
β	1.0	1.0	1.0	1.0	1.0
α	0.5	0.5	0.5	0.5	0.5

Value (μF)	Working Voltage (WV); Dimensions: øD x L (mm); Ripple Current: mA/RMS @ 120Hz, 85°C													
	4		6.3		10		16		25		35		50	
	øD x L	mA	øD x L	mA	øD x L	mA	øD x L	mA	øD x L	mA	øD x L	mA	øD x L	mA
0.1													3 x 5	1
0.22													3 x 5	2
0.33													3 x 5	2.8
0.47													3 x 5	4
1													3 x 5	7
2.2											3 x 5	7	4 x 5	10
3.3									3 x 5	10	4 x 5	12	4 x 5	13
4.7							3 x 5	11	4 x 5	14	4 x 5	17	5 x 5	20
10					3 x 5	13	4 x 5	23	5 x 5	27	5 x 5	27	6.3 x 5	31
22			4 x 5	22	5 x 5	30	5 x 5	35	6.3 x 5	42	6.3 x 5	46	6.3 x 5	46
33	4 x 5	27	4 x 5	34	5 x 5	41	5 x 5	49	6.3 x 5	52	6.3 x 5	52	8 x 5	66
47	4 x 5	34	5 x 5	37	6.3 x 5	50	6.3 x 5	58	6.3 x 5	58	8 x 5	72		
100	5 x 5	55	6.3 x 5	62	6.3 x 5	70	8 x 5	99	8 x 5	99				
220	6.3 x 5	74	8 x 5	104	8 x 5	120								

Specifications are subject to change without notice. No liability or warranty implied by this information. Environmental compliance based on producer documentation.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lelon:

[SS330M1E-0605P](#) [SS0R22M1H-0305P](#) [SS330M1V-0605P](#) [SS470M1A-0605P](#)

Xicon:

[140-L6.3V100-RC](#) [140-L50V2.2-RC](#) [140-L25V10-RC](#) [140-L50V10-RC](#) [140-L10V10-RC](#) [140-L16V10-RC](#) [140-L35V10-RC](#) [140-L50V.33-RC](#) [140-L50V1.0-RC](#) [140-L6.3V220-RC](#) [140-L10V220-RC](#) [140-L25V3.3-RC](#) [140-L50V22-RC](#) [140-L16V22-RC](#) [140-L10V22-RC](#) [140-L35V22-RC](#) [140-L25V22-RC](#) [140-L25V47-RC](#) [140-L16V47-RC](#) [140-L25V4.7-RC](#) [140-L6.3V47-RC](#) [140-L35V4.7-RC](#) [140-L50V4.7-RC](#) [140-L16V4.7-RC](#) [140-L50V.47-RC](#) [140-L50V.1-RC](#) [140-L16V100-RC](#) [140-L10V100-RC](#) [140-L25V100-RC](#) [140-L10V33-RC](#) [140-L16V33-RC](#) [140-L25V33-RC](#) [140-L35V2.2-RC](#) [140-L35V33-RC](#) [140-L50V33-RC](#) [140-L6.3V33-RC](#) [140-L50V3.3-RC](#) [140-L10V47-RC](#) [140-L6.3V22-RC](#) [140-L50V.22-RC](#) [140-L35V47-RC](#) [140-L35V3.3-RC](#)