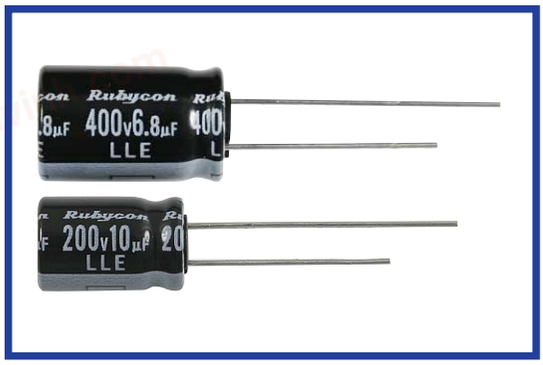
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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **LLE**

LLE SERIES NEW

Load Life: 105℃ 12000 - 20000hours.



◆FEATURES

- Ultra Long Life.
- For LED Lighting.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105℃
Rated Voltage Range	160～400V.DC
Capacitance Tolerance	±20%(20℃,120Hz)
Leakage Current(MAX)	CV≦1000: I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes) CV>1000: I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes) I=(μA) Leakage Current C=(μF) Rated Capacitance V=(V) Rated Voltage
(tanδ) Dissipation Factor(MAX)	(20℃,120Hz)
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage	160	200	400
tanδ	0.24	0.24	0.24

Capacitance Change	Within ±30% of the initial value.
Dissipation Factor	Not more than 300% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	(hrs) Life Time
6.3×11,8×9,10×9	12000
8×11.5,10×12.5	15000
10×16	20000

Rated Voltage	160	200	400
Z(−25℃)/Z(20℃)	3	3	6
Z(−40℃)/Z(20℃)	8	8	10

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

(Hz) Frequency		120	1k	10k	100k≦
Coefficient	1～5.6μF	1.0	1.6	1.8	2.0
	6.8～18μF	1.0	1.5	1.7	1.9
	22～33μF	1.0	1.4	1.6	1.8

◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

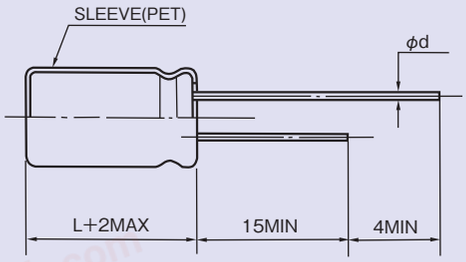
□□□	LLE	□□□□□	M	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

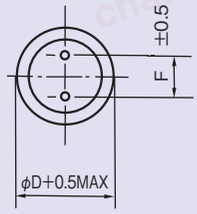
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Rubycon **MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS** **LLE**

◆DIMENSIONS

(mm)





ϕD	6.3	8	10
ϕd	0.5	0.6	
F	2.5	3.5	5

◆STANDARD SIZE

Size ϕD×L(㎜), Ripple Current (mA r.m.s./105℃, 120Hz)

WV(V.DC)	Cap(μF)	Size	Ripple
160 (2C)	5.6	6.3×11	52
	10	8×9	70
	15	8×11.5	92
		10×9	95
	22	10×12.5	121
	33	10×16	158
200 (2D)	2.2	6.3×11	36
	3.3	6.3×11	42
	4.7	6.3×11	49
	5.6	8×9	56
	6.8	8×9	62
	8.2	8×9	66
	10	8×11.5	80
	12	10×9	88
	18	10×12.5	113
	27	10×16	149

WV(V.DC)	Cap(μF)	Size	Ripple
400 (2G)	1	6.3×11	24
	1.2	8×9	28
	1.5	8×9	30
	1.8	8×9	33
	2.2	8×9	36
		8×11.5	40
	2.7	8×11.5	43
	3.3	8×11.5	47
		10×9	48
	3.9	10×12.5	57
	4.7	10×12.5	61
	6.8	10×16	85