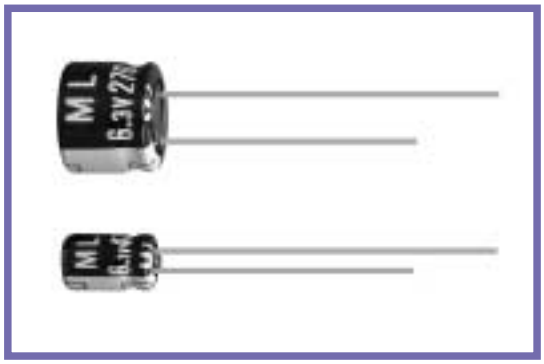
Rubycon MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS ML

ML SERIES NEW

105℃ Long Life, 5mm～10mm Height.



◆FEATURES

- Load Life : 105℃ 3000houes.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105℃
Rated Voltage Range	6.3～50V.DC
Capacitance Tolerance	±20%（20℃，120Hz）
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX)	(20℃，120Hz)
Endurance	After life test for 3000hrs with rated Ripple current, the capacitors Shall meet the following requirement.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX)

Rated Voltage(V)	6.3	10	16	25	35	50
tan δ	0.40	0.35	0.30	0.25	0.20	0.20

Endurance

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.

Low Temperature Stability Impedance Ratio(MAX)

Rated Voltage(V)	6.3	10	16	25	35	50
Z(−25℃)/Z(20℃)	6	4	4	3	2	2
Z(−40℃)/Z(20℃)	12	10	8	6	4	4

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	1 μF	0.50	1.0	1.20	1.30	1.50
	1.5～6.8 μF	0.65	1.0	1.20	1.30	1.50
	10～82 μF	0.80	1.0	1.20	1.30	1.50
	100～1000 μF	0.80	1.0	1.10	1.15	1.20

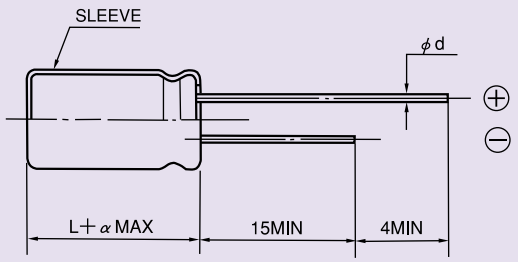
◆PART NUMBER

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

Rubycon MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS ML

◆DIMENSIONS

(mm)



φD	4	5	6.3	8×5	8×7	8×8	8×10	10
φd	0.45						0.6	
F	1.5	2.0	2.5		3.5			5.0
α	1.0							

◆STANDARD SIZE, RATED RIPPLE CURRENT

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

WV(V.DC) / Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1											4×5	8
2.2											4×5	11
3.3											4×5	14
4.7											4×7	23
6.8									4×5	17	5×5	25
10							4×5	18	4×7	28	5×7	30
12									5×5	34	6.3×5	37
15							4×7	35				
18					4×5	20			5×7	48	6.3×7	50
22			4×5	22	4×7	40	5×5	42			8×5	62
27	4×5	25					5×7	57	6.3×5	58		
33			4×7	43	5×5	45					8×7	75
39					5×7	65			6.3×7	76		
47	4×7	47	5×5	48			6.3×5	65	8×5	80		
56	5×5	50	5×7	68			6.3×7	85	8×7	105	8×8	115
68					6.3×5	70						
82	5×7	75					8×5	100			8×10	160
100			6.3×5	75	6.3×7	95	8×7	112	8×8	125		
120	6.3×5	80	6.3×7	100	8×5	110					10×10	315
150					8×7	125	8×8	140	8×10	180		
180	6.3×7	110	8×5	120								
220	8×5	125	8×7	160	8×8	170	8×10	190	10×10	360		
270	8×7	165										
330			8×8	180	8×10	195	10×10	450				
390												
470	8×8	190	8×10	210	10×10	460						
560	8×10	230										
680			10×10	470								
1000	10×10	480										