

ALUMINUM ELECTROLYTIC CAPACITORS

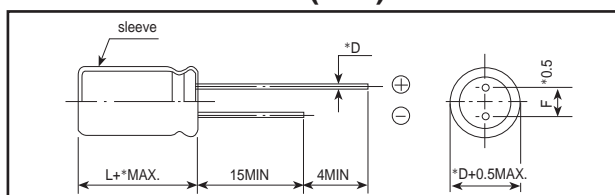
ML series

- Low leakage current series with 5mm height.

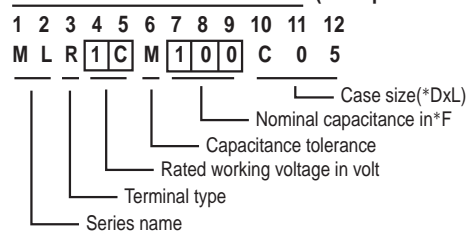
* SPECIFICATIONS

Items	Performance Characteristics																							
Operating Temperature Range	-40~+85*																							
Voltage Range	6.3 ~ 50V																							
Capacitance Range	0.1~100*F																							
Capacitance Tolerance	*20%(M) at 120Hz,25*																							
Leakage Current(MAX)	After 2 minutes application of rated voltage,leakage current is not more than 0.002CV or 4 (*A),whichever is greater.																							
(tan *)	Measurement frequency: 120Hz, Temperature:25*																							
	<table border="1"> <tr> <td>Rated voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan*(MAX)</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	Rated voltage(V)	6.3	10	16	25	35	50	tan*(MAX)	0.24	0.20	0.16	0.14	0.12	0.10									
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Stability at Low Temperature	Measurement frequency:120Hz																							
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Impedance ratio Z(-25*)/Z(+20*)	4	3	2	2	2	2																		
ZT/Z20(MAX)	10	8	6	4	3	3																		
Load Life	After 1000 hours' application of rated voltage at 85* capacitors meet the characteristics requirements listed at following.																							
	<table border="1"> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> <tr> <td>Capacitance Change</td> <td>whthin *20% of initial value.</td> </tr> <tr> <td>tan*</td> <td>200% or less of initial specified value</td> </tr> </table>	Leakage Current	Initial specified value or less	Capacitance Change	whthin *20% of initial value.	tan*	200% or less of initial specified value																	
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Shelf Life	After leaving capacitors under no load of 85* for 500 hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above.																							
Standards	According to JIS C-5141																							

* DIMENSIONS (mm)



CATALOG NUMBERING SYSTEM (Example:16V 10*F)



*D	4	5	6.3
*d	0.45	0.45	0.45
F	1.5	2.0	2.5
*	1.0		

* STANDARD CASE SIZES AND PERMISSIBLE RIPPLE CURRENT

D XL (MM)

Cap(*F)	Code	w.v.		6.3		10		16		25		35		50	
		OJ	1A	1C	1E	1V	1H								
0.1	R10													4x5	1.0
0.22	R22													4x5	2.0
0.33	R33													4x5	2.8
0.47	R47													4x5	4.0
1	O10													4x5	8.4
2.2	2R2													4x5	13
3.3	3R3													4x5	17
4.7	4R7								4x5	16	4x5	18	5x5	20	20
10	100					4x5	23	5x5	27	5x5	29	6.3x5	33		
22	220	4x5	28	5x5	33	5x5	37	6.3x5	42	6.3x5	46				
33	330	5x5	37	5x5	41	6.3x5	49	6.3x5	52						
47	470	5x5	45	6.3x5	52	6.3x5	58								
100	101	6.3x5	70												

MAXIMUM RIPPLE CURRENT(mA rms/85*,120Hz)