■ MT

MT Series Aluminum Electrolytic Capacitor

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Feature

* : 105℃ 2000

Load life:105℃ 2000 hours.

* RoHS

Compliant to the RoHS Directive.

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Application

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Ideally suited for switching power supplies, telecommunication and other elec

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Ideally suited for automatic SMT and high density circuits.

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Part Number

8	2	2	0	L	F	M	A	A	0	5	M	T	0	
	②			③		④	⑤							⑧

Code	Type
8	Product

Code	Voltage
LO	4
LA	6.3
LB	10
LC	16
LD	25
LE	35
LF	50
LG	63
MA	100

Code	Dime ΦDxL(
0405	4x
0505	5x
AA05	6.3x
AA07	6.3x
0810	8x1
1010	10x

Code	Nominal Capacitance
1R0	1uF
2R2	2.2uF
220	22uF
221	220uF

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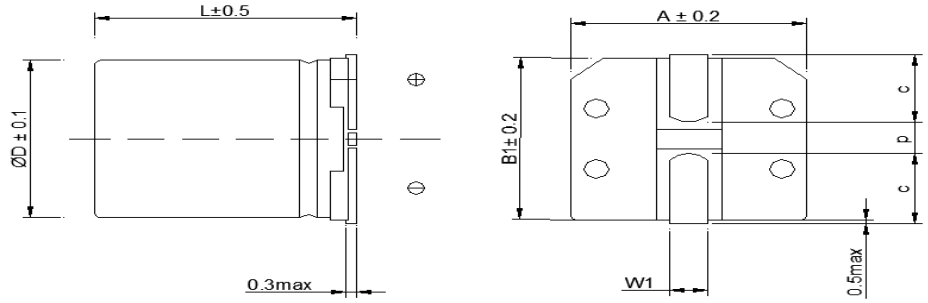
Product Structure



φD±0.5	L	A±0.2	B_1	C±0.2	W_1	P±0.2
4	5.5±0.2	4.3	4.3	1.8	0.5~0.8	1.0
5	5.5±0.2	5.3	5.3	2.1	0.5~0.8	1.4
6.3	5.5±0.2	6.6	6.6	2.5	0.5~0.8	2.0
6.3	7.7±0.3	6.6	6.6	2.5	0.5~0.8	2.0
8	10.5±0.5	8.5	8.5	2.9	0.8~1.1	3.1
10	10.5±0.5	10.3	10.3	3.2	0.8~1.1	4.5

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Main specifications

<table>
<tr><th>Item</th><th>Performance Characteristics</th></tr>
<tr><td>Rated Voltage Range</td><td>4~100V.DC</td></tr>
<tr><td>Operating Temperature Range</td><td>-40 ~+105</td></tr>
<tr><td>Nominal Capacitance Range</td><td>0.1~1000 F</td></tr>
<tr><td>Capacitance Tolerance</td><td>±20% M +25℃ 120Hz</td></tr>
<tr><td>Leakage Current (25℃)</td><td>
<table>
<tr><td>(V)
Rated working voltage</td><td>4~100</td></tr>
<tr><td>Leakage current</td><td>2 I 0.01CV 3(A),
After 2 min. I 0.01CV or 3(A), Whichever is greater.</td></tr>
</table>
C μF Nominal Capacitance in μF
V V Rated working voltage in V
</td></tr>
<tr><td>DF
Dissipation Factor</td><td>
<table>
<tr><td>(V)
Rated working voltage</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50~100</td></tr>
<tr><td>DF(MAX)
(25 ,120Hz)</td><td>0.35</td><td>0.30</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.14</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>Surge Voltage</td><td>(V)
Rated working voltage 4</td></tr>
<tr><td>Temperature Stability</td><td>
<table>
<tr><td colspan="2">(V)
Rated working voltage</td><td>4~6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50~100</td></tr>
<tr><td rowspan="2">(120Hz)
Impedance Ratio</td><td>z-25 /z+25</td><td>6</td><td>4</td><td>4</td><td>3</td><td>2</td><td>2</td></tr>
<tr><td>z-40 /z+25</td><td>12</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td></tr>
</table>
</td></tr>
<tr><td>Load life</td><td>+105℃ 2000 ,
After application of rated working voltage with max permissible ripple current specified at +105℃ for 2000 hours, capacitors meet the characteristics requirements measured at +20℃ listed at below:
1 :±30%
Capacitance change : ±30% initial measured value
2 : ≤
Leakage current: ≤initial specified value
3 ≤300%
Dissipation factor: ≤300% initial specified value</td></tr>
<tr><td>Shelf life</td><td>+105℃ 1000 , JIS-C-5101-4 30min,,
24 48 :
After leaving capacitors under no load at +105℃for 1000 hours, According to JIS-C-5101-4, apply the rated DC voltage for 30 minutes and store the capacitors under room temperature for 24-48 hours. The capacitors meet the characteristics listed as below:
1 :±30%
Capacitance change : ±30% initial measured value
2 : ≤
Leakage current:≤initial specified value
3 ≤300%
Dissipation factor: ≤200% initial specified value</td></tr>
</table>

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Dimensions and ripple current and frequency coefficient

Ripple current frequency coefficient

Freq (Hz) / Cap μF	50 (60)	100 (120)	500	1K	≥10K
0.1~1	0.50	1.00	1.20	1.30	1.50
2.2~4.7	0.65	1.00	1.20	1.30	1.50
10~47	0.80	1.00	1.20	1.30	1.50
100~1000	0.80	1.00	1.10	1.15	1.20

Dimensions and ripple current

WV/V / Cap/μF	4		6.3		10		16		25		35	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
2.2											4×5.5	7.5
3.3											4×5.5	9
4.7									4×5.5	13	4×5.5	14
10							4×5.5	20	4×5.5 5×5.5	17 20	4×5.5 5×5.5	20 24
22	4×5.5	22	4×5.5	23	5×5.5	26	4×5.5 5×5.5	23 31	5×5.5 6.3x5.5	28 36	6.3x 5.5	46
33	5×5.5	30	5×5.5	27	5×5.5	34	5×5.5 6.3×5.5	35 40	6.3x5.5	48	6.3 x 5.5	49
47	5×5.5	36	4×5.5 5×5.5	31 37	6.3x5.5	51	5×5.5 6.3×5.5	48 56	6.3x5.5	49	6.3×5.5 6.3x7.7	50

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Packaging

Taping dimensions

Size