

SMD Aluminum Electrolytic Capacitors

GL Series – Standard Chip Type 85°C 2000 hrs



Specifications

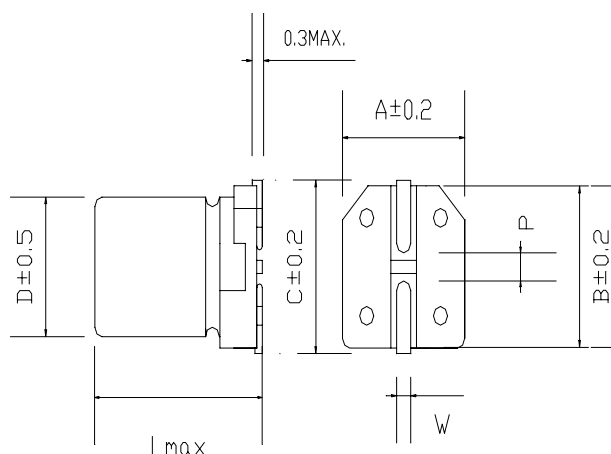
Item	Performance																																																															
Operating Temperature Range	-40 to+85℃																																																															
Rated Working Voltage Range	6.3 – 450VDC																																																															
Nominal Capacitance Range	0.1 – 4700μ F																																																															
Capacitance Tolerance	± 20% (at+20℃ ,120Hz)																																																															
Leakage Current	For 6.3~100V : 3-10Φ :I =0.01CV or 3(μ A), 12.5-16Φ: I = 0.03CV or 4(μ A), whichever is greater after 2 minutes. For 160 ~450V, 12.5-16Φ: I= 0.04CV + 100(μ A) after 5 minutes.																																																															
Dissipation Factor (tanδ) (120Hz\+20℃)	<table><tr><td>VDC</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160-250</td><td>400-450</td></tr><tr><td>3-10ψ</td><td>0.42</td><td>0.28</td><td>0.24</td><td>0.20</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.10</td><td>0.10</td><td>-</td><td>-</td></tr><tr><td>12.5-16ψ</td><td>-</td><td>0.38</td><td>0.34</td><td>0.30</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.14</td><td>0.10</td><td>0.20</td><td>0.25</td></tr></table>	VDC	4	6.3	10	16	25	35	50	63	100	160-250	400-450	3-10ψ	0.42	0.28	0.24	0.20	0.14	0.12	0.10	0.10	0.10	-	-	12.5-16ψ	-	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10	0.20	0.25																											
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Characteristics at Low Temperature (stability at 120 Hz)	<table><tr><td>VDC</td><td></td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160-250</td><td>400-450</td></tr><tr><td rowspan="2">-25℃/ +20℃</td><td>D<12.5</td><td>7</td><td>4</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td></tr><tr><td>D≥12.5</td><td>-</td><td>5</td><td>5</td><td>4</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>6</td></tr><tr><td rowspan="2">-40℃/ +20℃</td><td>D<12.5</td><td>15</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>-</td><td>-</td></tr><tr><td>D≥12.5</td><td>-</td><td>14</td><td>12</td><td>10</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td><td>6</td><td>10</td></tr></table>	VDC		4	6.3	10	16	25	35	50	63	100	160-250	400-450	-25℃/ +20℃	D<12.5	7	4	4	3	2	2	2	2	2	-	-	D≥12.5	-	5	5	4	2	2	2	2	2	3	6	-40℃/ +20℃	D<12.5	15	8	5	4	3	3	3	3	3	-	-	D≥12.5	-	14	12	10	5	4	3	3	3	6	10
VDC		4	6.3	10	16	25	35	50	63	100	160-250	400-450																																																				
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Load life	<table><tr><td>Leakage Current</td><td>the initial specified value</td></tr><tr><td>Capacitance change</td><td>±20% of initial measured value. (4V±30%)</td></tr><tr><td>Dissipation Factor(tanδ)</td><td>200% of initial specified value (4V±300%)</td></tr></table> After 2000hrs. application of DC rated working voltage at +85℃, The capacitor shall meet the following limits: Post test requirements at +20℃.	Leakage Current	the initial specified value	Capacitance change	±20% of initial measured value. (4V±30%)	Dissipation Factor(tanδ)	200% of initial specified value (4V±300%)																																																									
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Shelf Life	After storage for 1000hrs. at +85℃ with no voltage applied. Post test requirements at +20℃, same limits as load life test. For 160-450V,rated voltage should be applied before measurement.																																																															

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Case Size



ΦD	L±0.5	A	B	C	W	P
3	5.3	3.3	3.3	1.5	0.45~0.75	0.8
4	5.3	4.3	4.3	2.0	0.5~0.8	1.0
5	5.3	5.3	5.3	2.3	0.5~0.8	1.5
6.3	5.3	6.6	6.6	2.7	0.5~0.8	2.0
6.3	7.7	6.6	6.6	2.7	0.5~0.8	2.0
8	10	8.4	8.4	3.0	0.7~1.1	3.1
8	10.3	8.4	8.4	3.0	0.7~1.1	3.1
10	10	10.4	10.4	3.3	0.7~1.1	4.7
10	10.3	10.4	10.4	3.3	0.7~1.1	4.7
12.5	13.5	13.0	13.0	4.8	1.1~1.4	4.4
12.5	16	13.0	13.0	4.8	1.1~1.4	4.4
16	16.5	17.0	17.0	5.8	1.1~1.4	6.4

Case Size

Max ripple current: mA rms at 85°C. 120Hz (DxL mm)

W.V	4V		6.3V		10V		16V		25V		35V		50V		63V	
μF	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
0.1													4x5.3	3	4x5.3	2
0.22													4x5.3	5	4x5.3	3
0.33													4x5.3	6	4x5.3	4
0.47													4x5.3	7	4x5.3	5
1													4x5.3	10	4x5.3	8
2.2													4x5.3	14	4x5.3	12
3.3									3x5.3	14	3x5.3	14	4x5.3	17	5x5.3	22
4.7					3x5.3	14	3x5.3	14	4x5.3	26	4x5.3	26	4x5.3	20	5x5.3	25

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W.V	4V		6.3V		10V		16V		25V		35V		50V		63V		100V	
μF	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
10			3x5.3	16	4x5.3	26	4x5.3	26	5x5.3	44	5x5.3	44	5x5.3	35	6.3x5.3	40	8X10	90
22	3x5.3	16	4x5.3	26	5x5.3	44	4x5.3	30	5x5.3	47	5x5.3	47	6.3x5.3	50	8x10	139	8X10	90
33	4x5.3	31	4x5.3	31	4x5.3	31	5x5.3	55	5x5.3	55	6.3x5.3	67	6.3x7.7	75	8x10	139	10X10	120
47	4x5.3	34	4x5.3	34	6.3x5.3	75	5x5.3	55	6.3x5.3	75	6.3x7.7	98	6.3x7.7	75	10x10	200	10X10	120
68	5x5.3	58	5x5.3	58	5x5.3	58	6.3x5.3	89	6.3x7.7	109	6.3x7.7	109	8x10	190	10x10	226	12.5X13.5	380
100	5x5.3	58	6.3x5.3	89	6.3x5.3	89	6.3x5.3	89	6.3x7.7	109	8x10	252	8x10	190	10x10	226	12.5X13.5	440
220	6.3X5.3	89	6.3X5.3	89	6.3X7.7	124	6.3X7.7	124	8X10	270	8X10	270	10X10	320	12.5X13.5	500	16X16.5	600
330	6.3x7.7	124	6.3x7.7	124	8x10	290	8x10	290	10x10	400	10x10.3	400	12.5x13.5	600	12.5x16	600		
470	8x10	290	8x10	290	10x10	400	10x10	400	10x10	400	12.5x13.5	750	12.5x16	740	16x16.5	850		
1,000			10X10	430	10X10	430	12.5X13.5	750	12.5X13.5	750	16X16.5	1100						
2,200			12.5X13.5	890	12.5X13.5	890	16X16.5	1100										
3,300			12.5X16	1000	16X16.5	1300	16X16.5	1300										
4,700			16X16.5	1400	16X16.5	1400												

W.V	160V		200V		250V		400V		450V	
μF	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
4.7							12.5x13.5	120	12.5x13.5	120
10					12.5x13.5	1500	12.5x13.5	120	12.5x16	130
22			12.5X13.5	240	12.5X13.5	150	16X16.5	140	16X16.5	140
33	12.5X13.5	290	12.5X16	310	12.5X16	240	16X16.5	140		
47	10X10	120	12.5X16	370	16X16.5	420	16X16.5	340		
68	12.5X13.5	380	16X16.5	500	16X16.5	420				