

SPECIFICATION FOR APPROVAL

Date : 2022/08/29

<i>Conductive Polymer Aluminum Solid Capacitor</i>		GMV Series																														
Capacitance : 47 μ F	Tolerance : $\pm 20\%$	Type : SMD																														
Voltage : 35 V DC	Dimension : 6.3 x 6.5	Part No. : GMV-47M35V6365																														
Diagram of Dimension & Recommended land pattern (mm)																																
	<table border="1"> <thead> <tr> <th>ϕ DxL</th> <th>W</th> <th>H</th> <th>C</th> <th>R</th> <th>P</th> </tr> </thead> <tbody> <tr> <td>6.3x6.5</td> <td>6.6</td> <td>6.6</td> <td>7.3</td> <td>0.5 to 0.8</td> <td>2.1</td> </tr> <tr> <td>6.3x7.7</td> <td>6.6</td> <td>6.6</td> <td>7.3</td> <td>0.5 to 0.8</td> <td>2.1</td> </tr> </tbody> </table>	ϕ DxL	W	H	C	R	P	6.3x6.5	6.6	6.6	7.3	0.5 to 0.8	2.1	6.3x7.7	6.6	6.6	7.3	0.5 to 0.8	2.1	<table border="1"> <thead> <tr> <th>ϕ DxL</th> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>6.3x6.5</td> <td>2.1</td> <td>3.5</td> <td>1.6</td> </tr> <tr> <td>6.3x7.7</td> <td>2.1</td> <td>3.5</td> <td>1.6</td> </tr> </tbody> </table>	ϕ DxL	a	b	c	6.3x6.5	2.1	3.5	1.6	6.3x7.7	2.1	3.5	1.6
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Specification																																
1	Operating Temperature Range :	- 55 To + 105 $^{\circ}$ C																														
2	Capacitance Tolerance :	$\pm 20\%$ (20 $^{\circ}$ C, 120Hz)																														
3	Leakage Current :	$I \leq 329 \mu$ A (after 2 minutes)																														
4	Surge Voltage DC :	Rated voltage x 1.15 V																														
5	Dissipation Factor (Tan δ) :	0.12 MAX (20 $^{\circ}$ C, 120Hz)																														
6	ESR :	50 m Ω MAX. (20 $^{\circ}$ C/100KHz to 300KHz)																														
7	Ripple Current :	1500 mA (105 $^{\circ}$ C, 100KHz)																														
8	Load Life Test : After 2000 hours at 105 $^{\circ}$ C, The capacitor shall meet with following limits :																															
	Capacitance Change	$\leq \pm 20\%$ of initial value																														
	Dissipation Factor	$\leq 200\%$ of specified value																														
	ESR	$\leq 200\%$ of specified value																														
	Leakage Current	\leq initial specified value																														
9	Moisture Resistance : The following specifications shall be satisfied when the capacitors are restored to 20 $^{\circ}$ C after subjecting them at 60 $^{\circ}$ C, RH90~95% for 1000 hours.																															
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