



# SPECIFICATION FOR APPROVAL

Date : 2022/6/2

<i>Conductive Polymer Aluminum Solid Capacitor</i>		<b>GPL Series</b>									
Capacitance : 82 $\mu$ F	Tolerance : $\pm 20 \%$	Type : 直立式									
Voltage : 63 V DC	Part No. : GPL-82M63V0812										
Dimension (mm)		<table border="1"> <tr> <td><math>\phi D</math></td> <td>8 <math>\pm 1.5</math></td> </tr> <tr> <td>P</td> <td>3.5 <math>\pm 0.5</math></td> </tr> <tr> <td>L</td> <td>12 <math>\pm 1.5</math></td> </tr> <tr> <td>d</td> <td>0.6 <math>\pm 0.1</math></td> </tr> </table>		$\phi D$	8 $\pm 1.5$	P	3.5 $\pm 0.5$	L	12 $\pm 1.5$	d	0.6 $\pm 0.1$
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<b>Specification :</b>											
1	Operating Temperature Range	:	- 55 $^{\circ}$ C ~ + 125 $^{\circ}$ C								
2	Leakage Current ( $\mu$ A)	:	$I \leq 1033 \mu$ A (After 2 minutes application of rated.)								
3	Surge Voltage DC	:	Rated voltage x 1.15 V								
4	Dissipation Factor (Tan $\delta$ )	:	0.12 MAX. (20 $^{\circ}$ C/120Hz)								
5	Equivalent series resistance(ESR)	:	32 m $\Omega$ MAX. (20 $^{\circ}$ C/100KHz to 300KHz)								
6	Max. Permissible ripple current	:	840 mA/125 $^{\circ}$ C/100KHz (2100mA/105 $^{\circ}$ C/100KHz)								
7	High temperature & Low temperature characteristic	:	<table border="1"> <tr> <td>Z(-55<math>^{\circ}</math>C)/Z(+20<math>^{\circ}</math>C)</td> <td><math>\leq 1.25</math></td> </tr> <tr> <td>Z(+125<math>^{\circ}</math>C)/Z(+20<math>^{\circ}</math>C)</td> <td><math>\leq 1.25</math></td> </tr> </table>	Z(-55 $^{\circ}$ C)/Z(+20 $^{\circ}$ C)	$\leq 1.25$	Z(+125 $^{\circ}$ C)/Z(+20 $^{\circ}$ C)	$\leq 1.25$				
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8	Load Life Test	:	The following specifications shall be satisfied when the capacitors are restored to 20 $^{\circ}$ C after the rated voltage is applied for 16V~25V 2000 hours, $\geq 35$ V 1500 hours at 125 $^{\circ}$ C. The capacitor shall meet with following limits :								
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9	High temperature & High humidity : (Constant)	:	After storing for 1000 hours at 60 $^{\circ}$ C 、90~95% R.H. <table border="1"> <tr> <td>Capacitance Change</td> <td><math>\leq \pm 20\%</math> of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td><math>\leq 150\%</math> of specified value</td> </tr> <tr> <td>ESR</td> <td><math>\leq 150\%</math> of specified value</td> </tr> <tr> <td>Leakage Current</td> <td><math>\leq</math> initial specified value</td> </tr> </table>	Capacitance Change	$\leq \pm 20\%$ of initial value	Dissipation Factor	$\leq 150\%$ of specified value	ESR	$\leq 150\%$ of specified value	Leakage Current	$\leq$ initial specified value
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