



# SPECIFICATION FOR APPROVAL

Date : 2022/5/27

<i>Conductive Polymer Aluminum Solid Capacitor</i>		<b>GPL Series</b>								
Capacitance : 680 $\mu$ F	Tolerance : $\pm 20 \%$	Type : 直立式								
Voltage : 25 V DC	Part No. : GPL-680M25V1012									
Dimension (mm)										
		<table border="1"> <tr> <td><math>\phi</math> D</td> <td>10 <math>\pm</math> 1.5</td> </tr> <tr> <td>P</td> <td>5.0 <math>\pm</math> 0.5</td> </tr> <tr> <td>L</td> <td>12 <math>\pm</math> 1.5</td> </tr> <tr> <td>d</td> <td>0.6 <math>\pm</math> 0.1</td> </tr> </table>	$\phi$ D	10 $\pm$ 1.5	P	5.0 $\pm$ 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)	: $I \leq 3400 \mu$ 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)	: 16 m $\Omega$ MAX. (20 $^{\circ}$ C/100KHz to 300KHz)									
6 Max. Permissible ripple current	: 1880 mA/125 $^{\circ}$ C/100KHz (4700mA/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, $\geq$ 35V 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.									
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