



# SPECIFICATION FOR APPROVAL

Date : 2022/6/2

<i>Conductive Polymer Aluminum Solid Capacitor</i>		<b>GPL Series</b>									
Capacitance : 180 $\mu$ F	Tolerance : $\pm 20 \%$	Type : 直立式									
Voltage : 50 V DC	Part No. : GPL-180M50V1012										
Dimension (mm)											
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<b>Specification :</b>											
1 Operating Temperature Range	: - 55 $^{\circ}$ C ~ + 125 $^{\circ}$ C										
2 Leakage Current ( $\mu$ A)	: $I \leq 1800 \mu$ 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)	: 28 m $\Omega$ MAX. (20 $^{\circ}$ C/100KHz to 300KHz)										
6 Max. Permissible ripple current	: 1040 mA/125 $^{\circ}$ C/100KHz (2620mA/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.										
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