

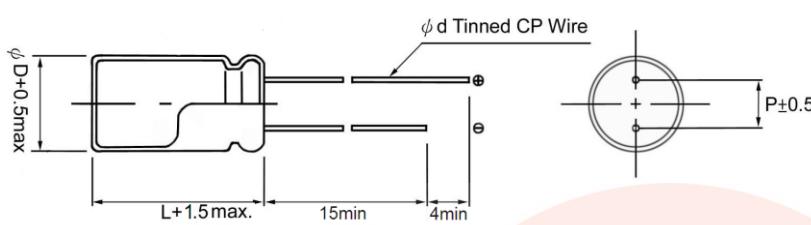
SPECIFICATION FOR APPROVAL

Date : 2022/5/27

Conductive Polymer Aluminum Solid Capacitor GPL Series

Capacitance : 820 μ F	Tolerance : $\pm 20\%$	Type : 直立式
Voltage : 16 V DC	Part No. : GPL-820M16V0812	

Dimension (mm)



φD	8 ± 1.5
P	3.5 ± 0.5
L	12 ± 1.5
d	0.6 ± 0.1

Specification :

1 Operating Temperature Range	: - 55 °C ~ + 125 °C								
2 Leakage Current (μ A)	: $I \leq 2624 \mu A$ (After 2 minutes application of rated.)								
3 Surge Voltage DC	: Rated voltage $\times 1.15$ V								
4 Dissipation Factor (Tan δ)	: 0.12 MAX. (20°C/120Hz)								
5 Equivalent series resistance(ESR)	: 13 m Ω MAX. (20°C/100KHz to 300KHz)								
6 Max. Permissible ripple current	: 1860 mA/125°C/100KHz (4650mA/105°C/100KHz)								
7 High temperature & Low temperature characteristic	<table border="1"> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>≤ 1.25</td> </tr> <tr> <td>Z(+125°C)/Z(+20°C)</td> <td>≤ 1.25</td> </tr> </table>	Z(-55°C)/Z(+20°C)	≤ 1.25	Z(+125°C)/Z(+20°C)	≤ 1.25				
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8 Load Life Test	: The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 16V~25V 2000 hours, $\geq 35V$ 1500 hours at 125°C. The capacitor shall meet with following limits : <table border="1"> <tr> <td>Capacitance Change</td> <td>$\leq \pm 30\%$ of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>$\leq 300\%$ of specified value</td> </tr> <tr> <td>ESR</td> <td>$\leq 300\%$ of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>\leq initial specified value</td> </tr> </table>	Capacitance Change	$\leq \pm 30\%$ of initial value	Dissipation Factor	$\leq 300\%$ of specified value	ESR	$\leq 300\%$ of specified value	Leakage Current	\leq initial specified value
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9 High temperature & High humidity : (Constant)	After storing for 1000 hours at 60°C、90~95% R.H. <table border="1"> <tr> <td>Capacitance Change</td> <td>$\leq \pm 20\%$ of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>$\leq 150\%$ of specified value</td> </tr> <tr> <td>ESR</td> <td>$\leq 150\%$ of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>\leq 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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