

SPECIFICATION FOR APPROVAL

Date : 2022/6/2

<i>Conductive Polymer Aluminum Solid Capacitor</i>		GPL Series									
Capacitance : 82 μ F	Tolerance : $\pm 20 \%$	Type : 直立式									
Voltage : 50 V DC	Part No. : GPL-82M50V0812										
Dimension (mm)		<table border="1"> <tr> <td>ϕ D</td> <td>8 \pm 1.5</td> </tr> <tr> <td>P</td> <td>3.5 \pm 0.5</td> </tr> <tr> <td>L</td> <td>12 \pm 1.5</td> </tr> <tr> <td>d</td> <td>0.6 \pm 0.1</td> </tr> </table>		ϕ 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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Specification :											
1	Operating Temperature Range	:	- 55 $^{\circ}$ C ~ + 125 $^{\circ}$ C								
2	Leakage Current (μ A)	:	$I \leq 820 \mu$ A (After 2 minutes application of rated.)								
3	Surge Voltage DC	:	Rated voltage x 1.15 V								
4	Dissipation Factor (Tan δ)	:	0.12 MAX. (20 $^{\circ}$ C/120Hz)								
5	Equivalent series resistance(ESR)	:	32 m Ω MAX. (20 $^{\circ}$ C/100KHz to 300KHz)								
6	Max. Permissible ripple current	:	900 mA/125 $^{\circ}$ C/100KHz (2250mA/105 $^{\circ}$ C/100KHz)								
7	High temperature & Low temperature characteristic	:	<table border="1"> <tr> <td>Z(-55$^{\circ}$C)/Z(+20$^{\circ}$C)</td> <td>≤ 1.25</td> </tr> <tr> <td>Z(+125$^{\circ}$C)/Z(+20$^{\circ}$C)</td> <td>≤ 1.25</td> </tr> </table>	Z(-55 $^{\circ}$ C)/Z(+20 $^{\circ}$ C)	≤ 1.25	Z(+125 $^{\circ}$ C)/Z(+20 $^{\circ}$ C)	≤ 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, ≥ 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>$\leq \pm 20\%$ 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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