



# SPECIFICATION FOR APPROVAL

Date : 2022/05/26

<i>Conductive Polymer Aluminum Solid Capacitor</i>		<b>GPT Series</b>								
Capacitance : 270 $\mu$ F	Tolerance : $\pm 20\%$	Type : Radial								
Voltage : 16 V DC	Part No. : GPT-270M16V0808									
Dimension (mm)										
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<b>Specification :</b>										
1 Operating Temperature Range	: $-55^{\circ}\text{C} \sim +105^{\circ}\text{C}$									
2 Leakage Current ( $\mu$ A)	: $I \leq 864 \mu\text{A}$ (After 2 minutes application of rated.)									
3 Surge Voltage DC	: Rated voltage x 1.15 V									
4 Dissipation Factor (Tan $\delta$ )	: 0.10 MAX. ( $20^{\circ}\text{C}/120\text{Hz}$ )									
5 Equivalent series resistance(ESR)	: 11 $\text{m}\Omega$ MAX. ( $20^{\circ}\text{C}/100\text{KHz}$ to $300\text{KHz}$ )									
6 Max. Permissible ripple current	: 4520 mA/ $105^{\circ}\text{C}/100\text{KHz}$									
7 Low Temperature Characteristic (Max Impedance Ratio)	<table border="1"> <tr> <td><math>Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})</math></td> <td><math>\leq 1.15</math></td> </tr> <tr> <td><math>Z(+55^{\circ}\text{C})/Z(+20^{\circ}\text{C})</math></td> <td><math>\leq 1.25</math></td> </tr> </table>		$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})$	$\leq 1.15$	$Z(+55^{\circ}\text{C})/Z(+20^{\circ}\text{C})$	$\leq 1.25$				
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8 Load Life Test	: After 5000 hours application of W.V. at $105^{\circ}\text{C}$ and the being stabilized at $20^{\circ}\text{C}$ . The capacitor shall meet with following limits :									
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9 High temperature & High humidity : (Constant)	After storing for 1000 hours at $60^{\circ}\text{C}$ 、90~95% R.H.									
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