



SPECIFICATION FOR APPROVAL

Date : 2022/05/26

| <i>Conductive Polymer Aluminum Solid Capacitor</i> | | GPT Series | | | | | | | | | |
|--|---|---|---|--------------------|---|--------------------|---------------------------------|-----|---------------------------------|-----------------|--------------------------------|
| Capacitance : 100 μ F | Tolerance : $\pm 20\%$ | Type : Radial | | | | | | | | | |
| Voltage : 16 V DC | Part No. : GPT-100M16V6306 | | | | | | | | | | |
| Dimension (mm) | | | | | | | | | | | |
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| Specification : | | | | | | | | | | | |
| 1 Operating Temperature Range | : $-55^{\circ}\text{C} \sim +105^{\circ}\text{C}$ | | | | | | | | | | |
| 2 Leakage Current (μ A) | : $I \leq 320 \mu\text{A}$ (After 2 minutes application of rated.) | | | | | | | | | | |
| 3 Surge Voltage DC | : Rated voltage x 1.15 V | | | | | | | | | | |
| 4 Dissipation Factor (Tan δ) | : 0.10 MAX. ($20^{\circ}\text{C}/120\text{Hz}$) | | | | | | | | | | |
| 5 Equivalent series resistance(ESR) | : 24 $\text{m}\Omega$ MAX. ($20^{\circ}\text{C}/100\text{KHz}$ to 300KHz) | | | | | | | | | | |
| 6 Max. Permissible ripple current | : 2490 mA/ $105^{\circ}\text{C}/100\text{KHz}$ | | | | | | | | | | |
| 7 Low Temperature Characteristic (Max Impedance Ratio) | <table border="1"> <tr> <td>$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})$</td> <td>$\leq 1.15$</td> </tr> <tr> <td>$Z(+55^{\circ}\text{C})/Z(+20^{\circ}\text{C})$</td> <td>$\leq 1.25$</td> </tr> </table> | | $Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C})$ | ≤ 1.15 | $Z(+55^{\circ}\text{C})/Z(+20^{\circ}\text{C})$ | ≤ 1.25 | : | | | | |
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| 8 Load Life Test | : After 5000 hours application of W.V. at 105°C and the being stabilized at 20°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°C 、90~95% R.H. | | | | | | | | | | |
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