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		<b>Released Date</b>	<b>2021/07/23</b>
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**10.3 Automobile Electronic Application:**

This specification is for automobile electronic use. RALEC will take no responsibility if any damage, cost or loss occurs when the product has been used in any special circumstances.

- (a) Information 、 entertainment 、 navigation 、 audio control units.
- (b) Comfortable door, window, seat control unit.
- (c) Internal lighting control unit.

**10.4 Environment Precautions:**

If consumer intends to use our company product in special environment or condition (including but not limited to those mentioned below), then will need to make individual recognition of product features and reliability accordingly.

- (a) Used in high temperature and humidity environment
- (b) Exposed to sea breeze or other corrosive gas, such as Cl<sub>2</sub> 、 H<sub>2</sub>S 、 NH<sub>3</sub> 、 SO<sub>2</sub> and NO<sub>2</sub>.
- (c) Used in non-verified liquids including water, oil, chemical and organic solvents.
- (d) Using non-verified resin or other coating material to seal or coat our Company product.
- (e) After soldering, it is necessary to use water-soluble detergents to clean residual solder fluxes, even though no-clean fluxes are recommended.

**10.5 Momentary Overload Precautions:**

The product might be out of function when momentary overloaded. Please make sure to avoid momentary overloading while using and preserving.

**10.6 Operation and Processing Precautions:**

- (a) Avoid damage to the edge of resistor and protective layer caused by mechanical stress.
- (b) Handle with care when printing circuit board (PCB) is divided or fixed on support body, because bending of printing circuit board (PCB) mounting will make mechanical stress for resistors.
- (c) Make sure the power rating is under the limit when using the resistor. When power rating is over the limit, the resistor will be overloaded. There might be machinery damage due to the climbing temperature
- (d) If the resistor will be exposed under massive impact load (shock wave) in a short period of time, the working environment must be set up well before use.
- (e) Please make evaluation and confirmation when the product is well used in your company and have a through consideration of its fail-safe design to ensure the system safety.



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**11 Storage and transportation requirement:**

- 11.1 The temperature condition must be controlled as  $25\pm 5^{\circ}\text{C}$ , and the R.H. must be controlled as  $60\pm 15\%$ . The stock can maintain quality level in two years.
- 11.2 Please avoid the mentioned harsh environment below when storing to ensure product performance and its' weldability. Places exposed to sea breeze or other corrosive gas, such as  $\text{Cl}_2$ 、 $\text{H}_2\text{S}$ 、 $\text{NH}_3$ 、 $\text{SO}_2$  and  $\text{NO}_2$ .
- 11.3 When the product is moved and stored, please ensure the correct orientation of the box. Do not drop or squeeze the box. Otherwise, the electrode or the body of the product may be damaged.

**12 The carton for electronic-information products is made by the symbol as follows: (For China)**

	
Marking for control of pollution cause by electronic-information products	Marking for package recovery

**13 Attachments:**

- 13.1 Document Revise Record (QA-QR-027)

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