

■ **⚠ Caution (Storage and Operating Conditions)**

This product is designed for application in an ordinary environment (normal room temperature, humidity and atmospheric pressure). Do not use under the following conditions because all of these factors can deteriorate the characteristics or cause product failure and burn-out.

1. Corrosive gas or deoxidizing gas (Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
2. Volatile or flammable gas
3. Dusty conditions

■ **⚠ Caution (Others)**

Be sure to provide an appropriate fail-safe function on your product to prevent secondary damage that may be caused by the abnormal function or the failure of our product.

■ **Notice (Storage and Operating Conditions)**

To keep solderability of product from declining, the following storage conditions are recommended.

1. Storage Condition:
Temperature -10 to +40°C
Humidity less than 75%RH (not dewing condition)
2. Storage Term:
Use this product within 6 months after delivery by first-in and first-out stocking system.
3. Handling after Unpacking:
After unpacking, promptly reseal this product or store it in a sealed container with a drying agent.

■ **Notice (Soldering and Mounting)**

1. PTFM Series is to be screwed beside the Power-Transistor on the radiative plate.
2. If PTFL Series is to be mounted with thermal cement, the cement should not be of the Cyano Acrylate family.
3. Please bend the lead wire far from the root of the body and do not apply force to the lead wire of the product.
4. When the lead of this product is soldered, observe the following points to avoid the decline of element characteristics or break-down of the element.

■ **Notice (Handling)**

1. Do not apply an excessive force to the lead. Otherwise, it may cause the junction between lead and element to break, or may crack the element. Therefore, holding the element side lead wire is recommended when lead wire is bent or cut.
2. This product does not have waterproof construction. Splashed water may cause failure mode such as decline of characteristics or current leak.

4. Under vacuum, or under high or low pressure
5. Wet or humid conditions
6. Places with salt water, oils, chemical liquids or organic solvents
7. Strong vibrations
8. Other places where similar hazardous conditions exist

4. Storage Place:

Do not store this product in corrosive gas (Sulfuric acid, Chlorine, etc.) or in direct sunlight.

- (1) Use rosin type flux or non-activated flux.
- (2) Do not dip the body into flux.
(Flux should be coated to lead wire only for soldering.)
- (3) Be sure that preheating does not melt the soldering of this product.

3. Do not apply an excessive force or scratch with a sharp instrument to the sheathing resin. Otherwise, the sheathing resin may peel off. (Subject only PTFL Series)