

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

1. This product is designed for the Switching Power Supply with smoothing capacitors. Other applications of this product may result in fire.
2. Use this product within the specified maximum current. Otherwise it may catch fire in the worst case.
3. Use this product with smoothing capacitor within the specified maximum capacitance value. Otherwise it may catch fire in the worst case.
4. 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 these factors can deteriorate the product characteristics cause 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
- (4) Under high or low pressure
- (5) Wet or humid conditions
- (6) Near with salt water, oils, chemical liquids or organic solvents
- (7) Strong vibrations
- (8) Other places where similar hazardous conditions exist

■ **⚠ Caution (Others)**

Be sure to provide an appropriate fail-safe function on your product to prevent secondary damages 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 condition is 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, reseal product promptly or store it in a sealed container with a drying agent.
4. Storage Place: Do not store this product in corrosive gas (Sulfuric acid gas, Chlorine gas, etc.) or in direct sunlight.

■ **Notice (Rating)**


Use this product within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality of this product.

■ **Notice (Soldering and Mounting)**

1. Do not give excessive heat on NTC body while soldering lead wire. Excessive heat may cause failures of open, short or damage to resin coat.
2. Do not touch the body directly by soldering iron.
The soldering point shall be min. 5mm away from the root of lead wire.

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Caution · Notice

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■ Notice (Handling)

1. When this product is operated, temperature of some area may be about 160°C. Use proper surrounding parts and material which withstand such temperature. If they are inadequate and kept at high temperature for long time, they may be deteriorated or may produce harmful gas. And, such harmful gas may deteriorate the element of this product.
2. This product does not have waterproof construction. Splashed water may cause failure mode such as deterioration of characteristics or current leak. So, do not apply cleaning to immerse it into water or any solvent.
3. The ceramic element of this product is fragile, and care must be taken not to load an excessive press-force or not to give a shock at handling. Such forces may cause cracking or chipping to the element.
4. Do not apply an excessive force to the lead wire. Otherwise, it may cause break off junction between lead wire and element, or may crack element. So, fix lead wire of element side when lead wire is bent or cut.

■ Notice (Others)

1. This product may allow passing higher current than its initial value when it receives inrush current again just after the last one until it cools down and recovers its original resistance enough. Be sure the highest current under actual condition on the operating repetition and the operating temperature.
2. The resin coating of this product does not guarantee insulating. Keep an adequate insulating distance to surrounding parts.