Safety Precautions
(Common precautions for Power Choke Coils for consumer use)

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Be fore use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, communication/gas equipment, rotating equipment, and disaster/crime prevention equipment.
  ✽ Systems equipped with a protection circuit and a protection device.
  ✽ Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault.

Precautions for use

1. Provision to abnormal condition
   This power choke coil itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.
   Therefore, it shall be confirmed as the end product that there is no risk of smoking, fire, dielectric withstand voltage, insulation resistance, etc. in abnormal conditions to provide protective devices and/or protection circuit in the end product.

2. Temperature rise
   Temperature rise of power choke coil depends on the installation condition in end products. It shall be confirmed in the actual end product that temperature rise of power choke coil is in the limit of specified temperature class.

3. Dielectric strength
   Dielectric withstanding test with higher voltage than specific value will damage Insulating material and shorten its life.

4. Water
   This Power choke coil must not be used in wet condition by water, coffee or any liquid because insulation strength becomes very low in such condition.

5. Potting
   If this power choke coil is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this power choke coil.

6. Solvent
   If this power choke coil is dipped in the cleaning agent, and the coating agent of the toluene and the xylene system, there is a possibility that the performance decreases greatly. Please ask us if you intend to pot this power choke coil.

7. Static electricity measures
   ① Circuit design
   Please set up the ESD measures parts such as capacitors in the former steps of this power choke coil for static electricity when there is a possibility that static electricity is impressed to the choke coil on the circuit. Moreover, please consult our company about such a case once.
   ② Treatment with single
   Take countermeasures against static electricity when using single power choke coil. (process and equipment)
   There is a possibility that the characteristic changes when the voltage of 200 V or more is impressed to this power choke coil. Please handle 200 V or less.
8. Core Chipping and Core Crack
   This choke coil has a possibility to make partial chipping or crack in the core due to excessive mechanical stress from outside, and might have initially a partial chipping and/or cracks that do not affect the quality.

9. Storage temperature
   -5 °C to +35 °C

10. Operating temperature
    Minimum temperature: -40 °C (Ambient temperature of the power choke coil)
    Maximum temperature: 130 °C (Ambient temperature of the power choke coil plus the temperature rise)
    100 °C (Only series: PCC-F126F(N6))

11. Model
    When this power choke coil is used in a similar or new product to the original one, it might be unable to satisfy the specifications due to difference of condition of usage.
    Please ask us if you use this power choke coil in the manner such as above.

7. Drop
   If the power choke coil receives mechanical stress such as drop, characteristics may become poor (due to damage on coil bobbin, etc.). Never use such stressed power choke coil.

<Package markings>
Package markings include the product number, quantity, and country of origin.
In principle, the country of origin should be indicated in English.
**Safety Precautions**
(Common precautions for Power Inductors / Wire Wound type)

- When using our products, no matter what sort of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this catalog are subject to change without prior notice.
- Do not use the products beyond the specifications described in this catalog.
- This catalog explains the quality and performance of the products as individual components. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
  - Systems equipped with a protection circuit and a protection device
  - Systems equipped with a redundant circuit or other system to prevent an unsafe status in the event of a single fault

**Precautions for use**

1. **Operation range and environments**
   - These products are designed and manufactured for general and standard use in general electronic equipment (e.g. AV equipment, home electric appliances, office equipment, information and communication equipment)
   - These products are not intended for use in the following special conditions. Before using the products, carefully check the effects on their quality and performance, and determine whether or not they can be used.
     - In liquid, such as water, oil, chemicals, or organic solvent
     - In direct sunlight, outdoors, or in dust
     - In salty air or air with a high concentration of corrosive gas, such as Cl₂, H₂S, NH₃, SO₂, or NO₂
     - In an environment where these products cause dew condensation

2. **Handling**
   - Do not bring magnets or magnetized materials close to the product. The influence of their magnetic field can change the inductance value.
   - Do not apply strong mechanical shocks by either dropping or collision with other parts. Excessive shock can damage the part.

3. **Washing of board**
   Kindly consult the Technical department before washing of the PWB with any cleansing agent, and provide the washing condition.

4. **Resoldering with a soldering iron**
   The temperature of the tip of the soldering iron should be 360 °C or less, 4 seconds. And resoldering with a soldering iron should be limited to 1 time, and after that should be cooling these.

5. **Mounting side**
   External force must be less than 5.0 [N] : while mounting.

6. **Storage conditions**
   Normal temperature (-5 to 35 °C), normal humidity (85 % RH max.), shall not be exposed to direct sunlight and harmful gases and care should be taken so as not to cause dew.

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