

Cautions for use

For higher reliability and safety, consider the following precautionary measures.

1. General

① Ferrite core:

Electrical and magnetic characteristics can change as a direct result of excessive force or shock.

- Do not use products which have been dropped.
- Do not apply shock over 20 N to the core during mounting.

② If overcurrent is applied (2 times the rated current, for 2 minutes min.) the product may develop a defect due to smoking and heat deformation.

- Do not apply current over the specified rating.
- Do not apply DC bias current.

③ Do not clean the coils after mounting to avoid the possibility of malfunction or failure.

2. Mounting

① The high power products are heavy.

- Stabilize the PWB near the filter mount to prevent PWB flexing.

② The products are easily influenced magnetically by other inductors and can also influence others inductors as well.

- Mount them far from other inductors, lead wires and noise sources.

③ The filter's temperature can rise if mounted in close proximity to other heat radiating components (transformers, heatsinks, etc.)

- Mount them away from other heat radiating components.

3. Temperature rise

① The rated current is specified at the point at which the filter's temperature rises; (45 K max.)

- Measure using the resistance method.
- When measuring by the thermo-couple method, place the sensor within the coil.

② The operation temperature indicates "ambient temperature" plus "self-generated heat".

4. Safety standards

① The core of the products is not grounded.

② These filters are not certified by global standards organizations, but are built to meet most safety regulations.

- Follow established safety guidelines regarding mounting the filters in proximity to other components.

5. Countermeasure for noise

① These products are not suitable for noise in excess of 10 MHz. Use other filters or arrange the PWB or lead positions to attenuate noise in excess of 10 MHz.

② The inductance of this product is effective for common-mode noise, and the leakage inductance is effective for normal-mode noise.