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Sub: **Cleaning Guideline**

RE: NPI & NPIS series – SMT Power Inductors

The following conditions should be observed when cleaning NPI & NPIS series products:

(1) Cleaning Temperature:

- 60°C max. (40°C max. for alcohol based cleaning agents)

(2) Ultrasonic Conditions:



**PRECAUTION:** Care should be taken to prevent resonance of the PCB and mounted components.

- Output: 20W/l max.
- Duration: 5 minutes max.
- Frequency: 28 to 40KHz

(3) Cleaning Agent:

The following cleaning agents have been tested on individual components.

Evaluation in complete assembly should be done prior to production.

- Alcohol based cleaning agents
  - Isopropyl alcohol (IPA)
- Aqueous cleaning agents
  - Pine Alpha ST-100S ... [Arakawa Chemical Industries of Japan has developed a semi-aqueous cleaning agent which the company claims can selectively clean resin-based flux and act as a substitute for CFC-113 in the production of printed circuit boards. The product, called **Pine Alpha ST-100S**, is indicated to be non-flammable. The Alpha Series also includes alternatives for 1,1,1-trichloroethane]
- After aqueous agents have been removed, clean with de-ionized water.

(4) Drying:

- Component should be thoroughly dried.

(5) Inspection:

- Ensure that flux residue is completely removed.



**In case of doubt or uncertainty please contact NIC technical support: [tpmq@niccomp.com](mailto:tpmq@niccomp.com)**