

Board-Mounted Power Modules: Cleaning

I. Cleaning Agents

Cleaning Method	Classification	Cleaning Agents
Ultrasonic Wave	Water Type	Deionised water
	Solvent Type	IPA

II. Cleaning process

II.I. PWB cooling prior to cleaning

Power modules and their associated application PWB assemblies should not be wash-cleaned after soldering until the power modules have had an opportunity **to cool within the cleaning solution temperature**. This will prevent vacuum absorption of the cleaning liquid into the module between the pins and the potting during cooling.

Note: In general, the liquid temperature shall be less than 60°C.

II.II. Cleaning process

In aqueous cleaning, it is preferred to have an in-line cleaner system consisting of several cleaning stages (pre-wash , wash, rinse, final rinse, and drying). Deionised (DI) Water is recommended for aqueous cleaning; the minimum resistivity level is 1MΩ-cm. Tap-water quality varies per region in terms of hardness, chloride, and solid contents; therefore, the use of tap water is not recommended for aqueous cleaning.

The total time of ultrasonic wave shall be less than 3 minutes.

III. Drying

After cleaning, assure that the converters will be dry enough so that the moisture and other potential foreign contaminants will not be present anymore.

IV. Product Post-wash external appearance

The marking or date-code may fade or disappear after cleaning. It is no problem on the performance of the converter.

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