



Module Washing/Cleaning Guideline

1. In general, Cincon do not recommend the washing or cleaning of our products except fully potted case in the customer applications field, as it may effect the reliability of the components on the entire device.
2. Therefore, this guideline advises on our fully potted cased DC-DC power modules only, and do not include our molded products, such as AC adapters, nor our open frame products, as they are difficult to get dry internally. Please always check our datasheets for additional information regarding washing/cleaning of the specific product in use.

PCB cooling preparation before the washing process

The modules and its PCB assemblies should not enter the cleaning/washing process right after soldering or any other process where the PCB has been heated. Make sure they are given the time to cool down to the temperature of the cleaning agent specifications.

Recommend washing agents

Cleaning procedure	Agents	Type
Ultrasonic wave	Deionized water	Water type
	IPA	Solvent type

Note: Agent temperature should be under 60°C.

Process

In liquid cleaning, it is recommended operate in a in-line process including several stages (prewash, wash, rinse, final rinse, and drying). Deionized water should be the primary substance for cleaning, and the minimum resistivity level is 1MΩ-cm. Tap-water varies in quality and characteristics in different regions, and therefore they are not recommended. Also, the duration for the ultrasonic wave should be within 3 minutes.

Drying

After cleaning, make sure the drying is thorough, and that remaining moisture and other contaminants have all been gone. Air circulating chamber (0.5-0.7 m³/s) or thermal oven (100±10°C, for 20~120 mins, depending on need) is preferred, and Handheld air guns are not recommended. The outcome of the drying process is at the sole responsibility of the company who performs this drying process.

Product outer appearance after washing

Date codes and other markings may diminish or fade out after the cleaning process. However, this shouldn't be a problem to the product in the electronic aspect.

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Yours Truly, Bill Yen

Cincon Director of Manufacturing Department