

Recommandation Ionic contamination (bare PCB) Comparability of test results

(The recommended values are not legally binding and are subject to an application-specific evaluation)

- The purity test serves to detect ionic contamination.
- Under certain environmental conditions, ionic contamination can have a negative influence on the reliability of electronic systems.
- There are several measuring methods that are based on different norms and standards such as MILP-28809, MIL-STD-2000A, DEF-STD 10/03, IPC-TR-583, IPC-TM 650, IPC-5701 ff., IPC-JSTD-001, IEC standards etc., some of which are no longer valid.
- The test results are affected, among other things, by the type of test equipment and the parameters (e.g. volume, composition, circulation and temperature of the test solution, test duration, sample size). Thus, it is virtually impossible to compare the results of different systems, meaning that the test results should only be seen as an indicator. Defining threshold values for ionic contamination is recommended based on the specific application and measuring system (AABUS).
- Process monitoring is recommended within the scope of the production process.