

Process Consulting in PCB-Assembly Production

Neutral validation of manufacturing processes and support in disputes with suppliers and customers

PCB Assembly Line

Motivation

Companies that manufacture electronic products (EMS or OEM) often do not have time to introduce new technologies and processes in addition to their daily business. They often lack the know-how to carry out design for manufacturing (DfM) and a qualified analysis of the quality and reliability of their products. ISIT offers support here.

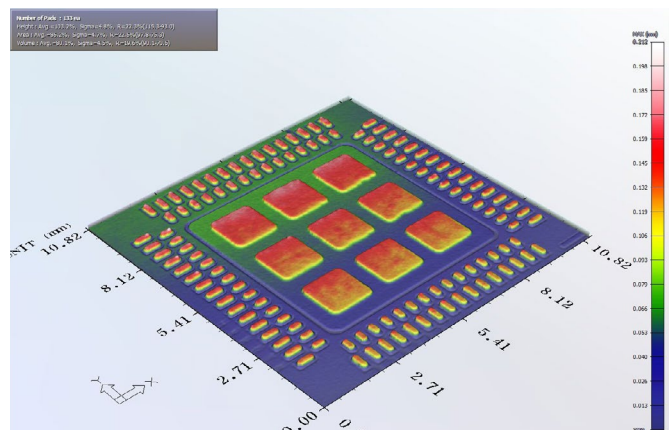
ISIT will support Process Optimization by:

- Design for manufacturing and approval of manufacturing specific design
- Introduction and implementation of (innovative) technologies, materials (e.g. solder paste validation) and products for manufacturing of electronic assemblies
- Generation of application notes including footprint design, recommendation of Pick % Place processes, soldering processes and handling
- Support in the production of pilot series, e.g. due to qualification and optimization of soldering profiles for in-line, selective and repair soldering processes

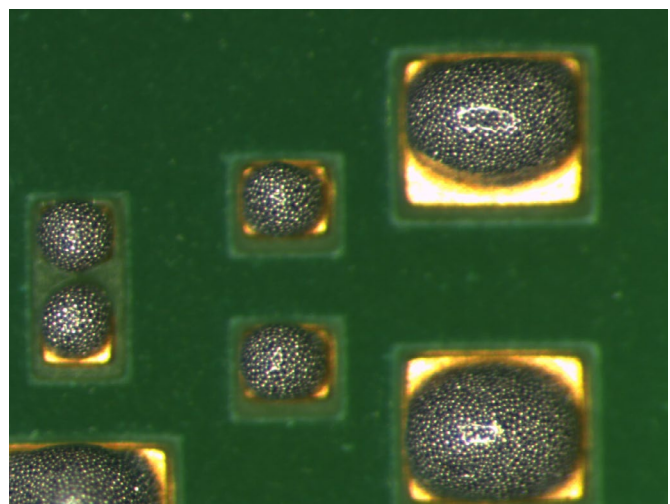
ISIT will support In-House Assessment by:

- Product quality evaluation
- Qualified process analysis
- Neutral validation of manufacturing processes and technical certification of manufacturing facilities as well as audit support with suppliers and customers
- Employee training on customer own production line
- Assistance in Benchmark tests

3D-soldering paste inspection



Printed solder paste





Consulting and Employee Training

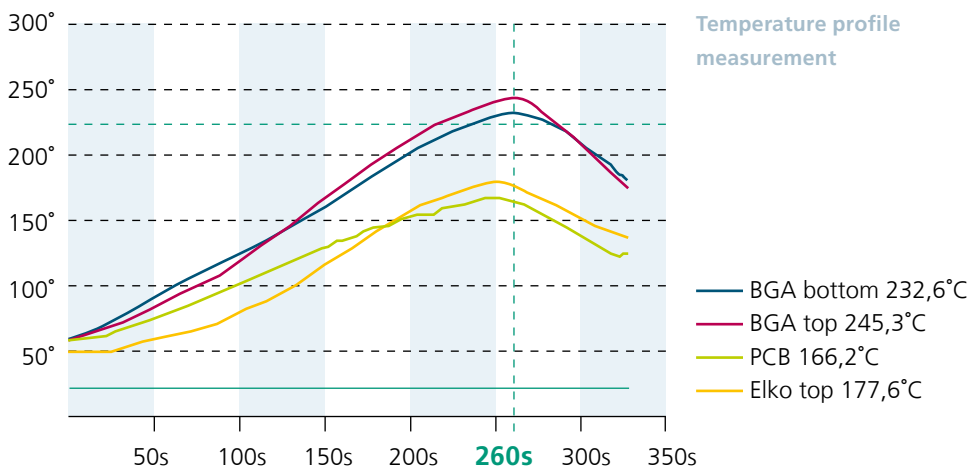
Our Service

Controlled quality and reliability are competitive key factors. Material selection, design and process control are the decisive factors to deliver products of high quality. Based on many years of evaluation in assembly processing and analyzing failures from field returns or accelerated aging, ISIT supports its customers with root cause analysis and process optimization that enable them to actively increase their assembly production as well as the reliability of their products.

Fraunhofer ISIT offers customized assistance in PCB assembly production and provides neutral support in disputes with suppliers and customers.



Fraunhofer ISIT
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