Solder plus Support

CASE STUDY

AIM's M8 REL61 Solder Paste Enables Cost Reduction Without Compromising Performance

PROBLEM

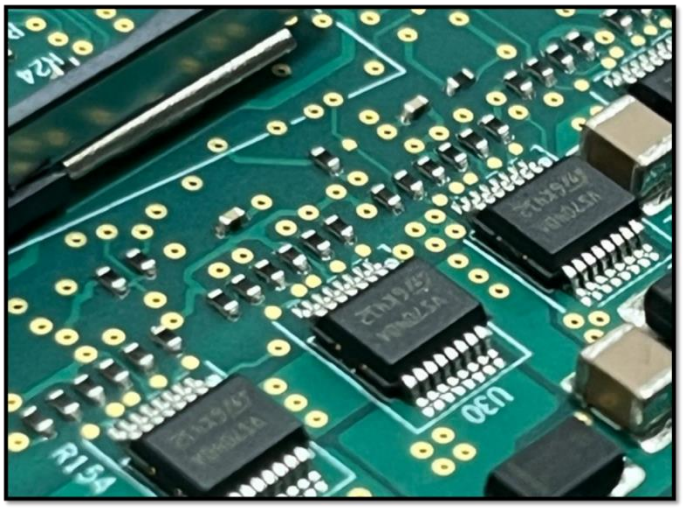
An EMS provider was seeking to reduce costs associated with solder paste materials. Their existing solution, a SAC305 alloy paste from a competitor, met quality requirements but came at a higher price. To reduce material expenses without impacting production outcomes, they sought to evaluate a potential replacement.

SOLUTION

AIM's technical team collaborated with the provider to conduct a full process evaluation using AIM's M8 solder paste with REL61 alloy and T4 powder size. Thirty test boards were printed, reflowed, and analyzed for quality and consistency against established process parameters.

RESULTS

The evaluation showed no issues during printing or reflow. M8 REL61 provided consistent, high-quality performance with excellent wetting, minimal voiding, and no defects. The customer deemed the results acceptable and sent the boards for final functional testing. AIM's M8 REL61 outperformed the incumbent paste in overall performance, achieving the dual objective of quality and cost-efficiency.



PRODUCTS/SERVICES USED

- REL61 Lead-Free Solder Alloy
- M8 No Clean Solder Paste
- AIM Solder Technical Support

SUCCESS METRICS

- Improved printing and overall performance
- Reduced materials costs

LEARN MORE

Learn more about solder paste handling and printing and AIM's REL61 alloy from AIM experts:

- Reflow Profiling in Soldering and PCB Assembly
- Preserving Solder Paste Integrity: A Closer Look at Mixing Methods and Automated Mixers
- What's in Solder Paste and How is it Made?
- AIM's REL61 Solder Alloy