

Reliable Testing. Expert Analysis. Accurate Results.

Services for Aged Inventory

Many see aged inventory as a liability, but even sensitive electronic components can be a valuable asset. The longer a device has been in house the greater the odds that there may be an issue that needs to be addressed before it should be used. Advanced Component Testing (ACT) provides services to help organizations make the most of legacy electronic components in their aged inventory.

Component Authenticity Inspection & Testing

Unless an electronic component has full documentation linking it back to the OCM, there's a chance it could be counterfeit: especially if its acquisition predated your organization's adoption of a counterfeit mitigation plan. Advanced Component Testing is a leader in this field and is one of a select few ISO17025-certified labs performing functional and parametric electrical testing as well as assessment for counterfeiting. ACT regularly performs and documents the following procedures (and more):

- Material Analysis via XRF
- Lead Condition Inspection
- RoHS Compliance/MIL Lead Compliance
- X-Ray Inspection
- Visual Testing via SEM
- Blacktopping Inspection
- IC Decapsulation/Delidding
- Resistance to Solvents
- Electrical Curve Tracing
- Heated Solvent Testing

Requalifying/Relifing

Even in the best storage environment, the mere passage of time can alter electronic components, e.g., a loss of capacitance with ceramic capacitors. Through a series of tests, ACT can help determine if any degradation has occurred and if so may be able to de-age devices by, for example, heating and retesting.

Baking & Dry Packing

The longer an electronic component sits in a warehouse, even a climate controlled one, the greater the odds are that it has been compromised by moisture and thus may fail during use. ACT can bake and dry pack to eliminate any moisture that may be present in accordance with IPC/JEDEC J-STD-033B.

Parametric Electrical Testing

How do you know that components stored long-term at your facility will perform to manufacturer's specs, especially if you suspect they could have been compromised? ACT can perform full parametric electrical testing to validate whether or not a component operates in accordance with published specifications.

Component Upscreening

Sometimes the best solution to sourcing a component is to identify a similar component that, although listed with lower specs, actually performs to the higher standard. Advanced Component Testing offers reliable upscreen testing that can enable you to utilize legacy components to satisfy current requirements in the most cost-effective and timely manner.