



Sample Reported Part Alert

DAC4815AP

Manufacturer: BURR-BROWN CORP
Date Code: 9934
Lot Code: 99347469
Country of Origin: USA
Suspect Counterfeit: Yes
Date Reported: 06/27/2014

Observation(s):

Lead External Visual Inspection Revealed:

Evidence of refurbishing/retinning present

- Solder splash, excess solder, solder tails, solder paste and/or solder bridges
- Lack of exposed base metal at the lead tip
- Lack of tooling marks
- Prior solder reflow and/or excessive, uneven or non-uniform plating or thickness (e.g. evidence of refurbishing)
- Objective evidence and/or acknowledgement the parts have been refurbished/retinned

Evidence of prior use present

- Insertion marks and/or scratches on inside and/or outside of leads
- Missing, bent, trimmed, cracked and/or non-planar leads

Evidence of improper handling/storage present

- Discoloration, dirt or residues
- Oxidation and/or corrosion visible

Device Package External Visual Inspection Revealed:

Evidence of tampering present

- Package dimensions (e.g. thickness, width, height, etc.) and/or weight are inconsistent with the manufacturer's specifications (Method 2016 of MIL-STD-883 or equivalent)
- Inconsistent or incorrect package construction
- Inconsistent surface texture (e.g. color discrepancy between the top, bottom and/or side of the part)
- Inconsistent package indents, texture, shape, size, depth and/or placement (e.g. mold pin, pin 1 indicator, ejector pin or COO stamp)
- Unidirectional abrasions (e.g. directional sanding)
- Differences in the corner radius between the top and bottom surfaces (e.g. evidence of sanding)

Evidence of prior use and/or improper handling and storage present

- Evidence of color fade, stains, blotches, scratches, cracks or visible damage such as burn marks or chipouts

Remarking & Resurfacing Testing Revealed:

Parts Failed Solvent Test for Remarking (Marking Permanency Testing - MPT)

- Part markings were removed using three (3) parts mineral spirits (CAS Registry Number 9072-35-9) with one (1) part isopropyl alcohol (CAS Registry Number: 67-63-0), or Method 2015 ...
- Difference in surface texture visible after test

Parts Failed Resistance To Solvents (RTS) - Acetone

- Surface material was removed using acetone (e.g. CAS Registry Number 67-64-1)
- Difference in surface texture visible after test

Parts Failed Heated Chemical Test (HCT) aka Heated Solvents Test

- Surface material was removed using 1-Methyl 2-Pyrrolidinone (CAS Registry Number 108-98-9)
- Directional sanding marks visible after test
- Difference in surface texture visible after test

Mechanical Scraping (e.g. Scrape Test, Scratch Test) Revealed:

Evidence of tampering present

- Secondary coating/blacktopping lifted during test

Radiological (X-ray) Inspection Revealed:

Comments: Inspection did not present signs that would indicate the component is not authentic.

Decapsulation Internal Analysis (aka delidding, decap) Revealed:

Comments: Inspection did not present signs that would indicate the component is not authentic.

Scanning Electron Microscopy (SEM) Revealed:

Evidence of tampering present

- Surface texture is inconsistent within a homogeneous lot

XRF Analysis Revealed:

Comments: Inspection did not present signs that would indicate the components are not authentic.



Available Images and Test/Nonconformance Reports:



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SMT Corp Component Inspection Analysis