



## 72 Point Inspection

### Parts Inspected for each condition:

#### DELIVERY

- Check box for shipping damage.
- Photograph any damaged and report to carrier.

#### RECEIVING

- Match vendor info to internal docs.
- Verify contents include Manufacturer or Vendor CoC when indicated
- Verify PN and quantities to internal docs.
- Verify manufacturer to internal docs. (Match QPL)
- Photograph contents out of box

#### INSPECTION

- Utilize certified inspectors to perform inspection.
- Verify for compliant ESD packaging.
- Packaging Type (i.e. factory sealed, etc.)
- Verify labels, for authentic logos and manuf markings.
- Verify Quantity.
- Verify Manufacturer part number.
- Verify Manufacturer.
- Verify Date Code(s) / Lot Code (s).
- Verify Country of origin – Ensure that there are not multiple countries of origin for identical date codes / lot codes.
- Verify Product condition, any signs of rework to body, leads, or remarking
- Markings, symbols, labels, or other indicators of authenticity or origin.
- Pin arrangement and pin count.
- Humidity control packaging.
- Read & record status of Humidity Indicator Card (HIC).
- Scan or photograph label info then catalog.

#### MICROSCOPY

- Check for bent, scratched, broken, or missing pins.
- Perform chemical part number permanency test.
- Check mold cavities for evidence of re-blacktop.
- If mold cavity appears filled perform chemical test on blacktop.
- Check for corrosion or solder on pins.
- Ensure that there are no scratches on the inside or outside of leads.
- Verify that the pins are similar in gloss or shine, color, and texture.
- Make sure the pins are not oxidized, tinned, or discolored.
- Ensure that leads are not too shiny for older DC or too dull of new DC.
- Verify that dirt or other substance is not on the parts or leads.
- Check for minor directional scratches, in other words, small abrasions that usually appear to be in one direction on the top of the parts.
- Confirm that there are not minor cracks on the surface of the parts.
- Make sure that there are not colored dots or ink marks on the tops of components.
- Make certain that the top of the part and the underside do not display different part numbers.
- Verify that the markings on the parts are consistent, i.e. have the same font, print color, and marking placement throughout the package type and conform to the norm for the manufacturer

#### MICROSCOPY continued

- Ensure that identical parts within the same tube/reel/packages have consistent date codes and consistent lot codes / numbers.
- Check for evidence of tool / pull marks or heat –sink witness markings.
- Make certain that circles on bottom parts are consistent.
- Ensure that there are no dents in leads and slots that indicate prior usage.
- Make certain that there are not color discrepancies on the top vs. bottom of part.
- Verify that there are no traces of glue or adhesive on the surface of the chips.
- Verify that there are no stickers' or underlying etching on the part casing.
- Make certain that all parts are facing the same direction within the package type.
- Verify from the manufacturer's data sheet:
  - Number of pins per part.
  - Part dimensions.
  - Part weight, if applicable
- Photograph markings front and back for records.
- If non-conforming, photograph NC (s)
- If non-conforming, immediately segregate from shipping line.

#### TAPES, TUBES, TRAY AND PART INSPECTION

- Determine if the reels, tubes or trays are third party reels or manufacturer reels.
- Ensure that all tape in shipment is consistent and appropriate in type (paper or plastic) and color conforms to the norm for the manufacturer.
- Check for tape leader and tape tail.
- Make sure cover tape is not loose or falling off.
- Inspect for tape, tube or tray damage.
- Check for missing parts within the tape
- Verify correct tape dot pitch for product. When running through the reel counter.
- Verify that all parts are faced in the same direction within the carrier tape.
- Verify that the marking on the parts are consistent throughout the reels (same date code, same lot codes, country of origin, ect.)
- Verify that the marking on the parts have the same font, print color, and marking placement throughout the reel and conform to the norm for the manufacturer.

#### PACKAGING

- Verify part numbers and quantities.
- Weigh product contents and record.
- Package utilizing ESD & humidity control materials.
- Barcode label box.
- Verify packing slip reflects contents. Verify Certificates of Compliance are included if so indicated.

#### SHIPPING

- Inspect boxes while loading.

Comments:

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