

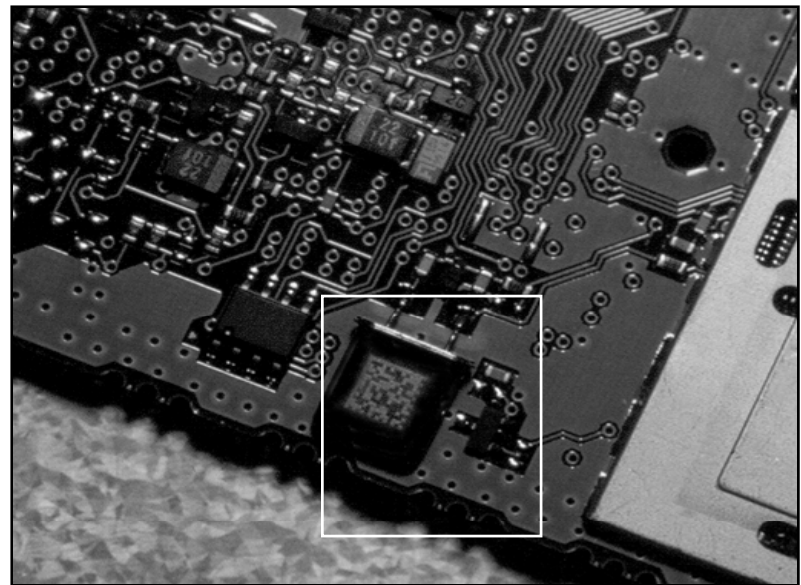
AIDC for Industry

Reading Data Matrix on Electronic Components

Electronics Manufacturing – Data Matrix on components

An electronics manufacturing company that makes components for the automotive industry needed to automate their assembly process.

They wanted a 2D reader to verify that the correct components had been placed onto printed circuit boards before they are shipped to the customer.

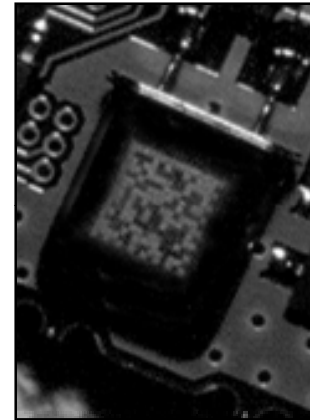


The symbol

Code Types: Data Matrix, 5 mil (.127 mm), thermal transfer Data Matrix, 5 mil (.127 mm), laser-etched

Application:

The manufacturer needed to read two different types of Data Matrix codes on the crystal oscillators for verification purposes. The bar codes were used for work in process tracking.

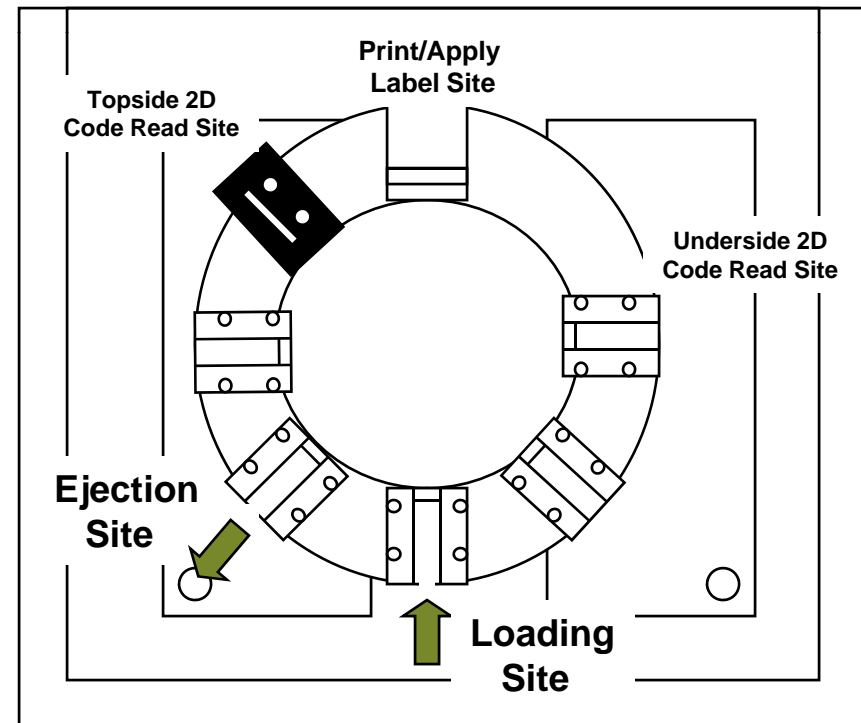


The installation

Each verification station contains two 2D barcode reader units, both mounted at a 2-inch focal distance inside a test cell.

The first unit reads both the linear code on the PCB board and the Data Matrix code on the components on the top side of the boards. The second unit reads the two code types from the bottom side of the PCBs.

By using this system, the manufacturer verifies which boards have the correct crystal oscillators.



Why 2D Barcode Readers



2D barcode readers offer the following features:

- Fully integrated package; camera, light source and decoder all contained in one package
- Ease of use
- Multiple code types

The bottom line

By switching to an automated verification system, the manufacturer was able to dramatically reduce the number of imperfect boards sent to customers.

This in turn reduced the number of returned products and greatly improved overall product quality and customer relationships.



**We solve 99% of all applications. Put us to the test.
Send us a sample of your bar code or 2D symbol today.**

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