

Optical Module Process Inspection Data Table



Article Overview

An Optical Module Process Inspection Data Table organizes AOI inspection results to track defects, measure quality, and optimize manufacturing yield.

Purpose and Overview

An Optical Module Process Inspection Data Table is used in semiconductor, PCB, and optical module manufacturing to record, classify, and analyze defects detected by Automated Optical Inspection (AOI) systems. These tables help engineers monitor production quality, identify recurring issues, and correlate visual defects with electrical or parametric test results to improve yield and reduce rework costs .

Typical Data Captured

The table usually includes the following key fields:

- Module/Board ID: Unique identifier for each optical module or PCB inspected.
- Inspection Date/Time: Timestamp of the AOI scan.
- AOI System ID: Identifier for the inspection machine used.
- Defect Type: Classification of detected defects, such as missing components, misalignment, solder bridges, tombstoning, or polarity errors .
- Defect Location: X-Y coordinates or reference designator on the module.
- Severity/Score: Quantitative measure of defect impact or confidence level from the AOI software.....

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Semiconductor Inspection

Note that, in addition to the objective optical system, motorized stage, and light source, the platform employs various controllers and

Contact Us

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