

NEW! FAI on After Reflow Model

Automated First Article Inspection/
Verification System for PCB Assemblies

n=1 Checker^Y Series

*Electrical and Optical Reliable FAI for Identified SMD
(0402 mm / 01005") in PCB Assemblies Before Mass Production*

ADVANTAGES

Quickly : Verify Identified Mounting Error of PCB & Reduce Test Data Programming Works

Accurately : Eliminate Human Error & Verify Assemblies to BOMs

Reliability : Auto. Providing Traceability Electric Test Data Report & Data Management

Test Area Information: Desktop Model Medium Size: 300mm × 250mm (12.9" × 9.8") Large Size: 510mm × 380mm (20.0" × 14.9")



FEATURES OVERVIEW

Support FAI for the PCB After ReFlow & Reduce Changeover Works for the Productions

Automate Programming to Select and Measure Impedance for one Component out of all SMDs with the Same Parts Code

Support Automating to Measure Impedance Components in Production of Small Quantity & Large Variety Products

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Features

1 Automated Impedance Measurement System

Accurately automate measuring CR (Capacitance and Resistance) using probes by an LCR meter, and enables the n=1 Checker to automate verifying and judging the measurement results compared with the Parts Library as well as automated save all data into the database. All data can be used for both internal and customers' quality assurance.

2 Human Optical Inspection / Verification System

Supporting a CCD camera that automates verifying the identified mounting status of each component on the display monitor of the n=1 Checker, and enables it to visually inspect showing optical inspection results compared with the Parts Library (e.g., type of description in printed alphanumeric characters, orientation, dimension, polarity, and Pin #1 identification).

3 Test Program Generator (TPG)

TPG is a program that automates generating test program from mounting data and component Parts List (Parts Library) for the n=1 Checker.

List of Data Items Generated

Component Type (C or R), Location, Component /Parts Code, Mounted X-Y Coordinates, Component Size, Component Height, Mounting Angle, Constant Value, Lower /Upper Limit, Operation Flag, Printed Alphanumeric Characters, Test Mode.

4 Other Software Features

The software is designed for user convenience and ensures work efficiency. Functions for component height search and workpiece offset acquisition are built in.

Functions for manual robot movement, data logging, inspection for takt-time indication and video screen rotation, as well as a check function in reconfirmation mode, are supported.

Specifications

	Medium(M) size	Large(L) size
Net Weight	92kg (203 lbs.)	118kg (260 lbs.)
Dimensions	W:660 x D:805 x H:625 mm (Approx. W:2.17 x D:2.64 x H:2.05 ft)	W:860 X D:975 X H:640 mm (Approx. W:2.82 x D:3.20 x H:2.10 ft)
Test Area	X:330 mm (12.9") Y:250 mm (9.8")	X:510 mm (20.0") Y:380 mm (14.9")
	Max. Component Height: 13.9 mm (0.54") [above the PCB Surface]	
Test Duration	1 Second per Component (Typically)	
# of Measurement Steps	Max. 10,000 Steps	
Language Support	English, Japanese, Chinese	

Impedance Measurement

Component Test	2-terminal chip capacitors, 2-terminal chip resistors, chip-type module resistors
Component Size	0603, 1005, 1608, 2012, 3216 (3225), 4532, and 5025 [0402 optional] mm 0201, 0402, 0603, 0805, 1206, 1812, and 2010 [01005 optional] inch
Component Mounting Angle	0, 90, 180, and 270 degrees [45 degrees or Free Angle degrees Optional]
Measurement Range	L: 500 nH - 1H, C: 1pF - 199.99 mF, R: 0Ω - 19.99 MΩ
Measurement Voltage	1.2 Vrms (Double-Sided Tape in Use), 0.1 Vrms (After ReFlow in Use)

Human Optical Inspection / Verification Support

Component Display Area	10.0 mm (0.39") x 6.7 mm (0.26")
Collation Display Area	Component size, mounting angle, printed alphanumeric characters for type descriptions, 1-pin direction, positive orientation, cathode orientation, missing component

*ALL SPECIFICATIONS AND DATA FOR THE n=1 Checker ARE SUBJECT TO CHANGE, MODIFY, OR OTHERWISE FOR IMPROVING THE PRODUCT QUALITY WITHOUT NOTICE.



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