

1109 IMPEDANCE BOARD HITESTER

Equipment





with up to 3000 blocks and printed circuit boards

TDR method impedance testing of high-speed, high-frequency boards

From IC packages to MCMs





The 1109 IMPEDANCE BOARD HITESTER is a bare board tester employing a test head (inspection jig) equipped with dedicated high-frequency probes for TDR measurement. In addition to features for inspection of MCM, BGA, FC-PGA, FC-BGA, CSP, and memory boards, the equipment is also capable of testing large multi-sample boards.

■ Specifications

[Mechanism part]

XY axis unit

Test board : 10×10 mm to 510×610 mm

dimensions (Accommodates both a piece and a multi-sample panel)

Work area : 10×10 mm to 500×600 mm

(Accommodates both a piece and a multi-sample panel)

Board thickness : 0.3 mm to 3.2 mm Board fixation : Vacuum jig Travel resolution : 1.25 µm Position repetition: Within $\pm 10 \mu m$ Loading height : $930 \text{ mm} \pm 10 \text{ mm}$

■ Upper Theta axis unit

Travel resolution: ±2 sec. Position repetition: Within ± 3 sec.

■ Upper Z axis units

Travel stroke : 5 mm (automatic inspection mode)

Position repetition : $\pm 15 \ \mu m$

[TDR measurement part]

Measuring instrument: TEKTRONIX CORP.

TDS8000 with 80E04 and module extenders (standard)

Bandwidth: 20GHz

(Please inquire regarding other measuring

instruments.)

Test head : Test head with built-in high-frequency Probes used : High-frequency probe (individually movable)

Bandwidth: 20 to 40GHz (probe only)

Cables used : High-frequency cable

Bandwidth: Equivalent to 18GHz Calibration : Built-in calibration board No. of test steps : Max. 20,000 steps

Test pieces : Max. 3000 pieces

[General specifications]

Power supply : AC 200 V $\pm 10\%$ (single phase) 50/60 Hz

Power consumption: 4 kVA

Pneumatic system: Primary pressure: 0.6 to 0.99 MPa (dry air)

Setting pressure (secondary side): 0.5 ±0.1 MPa

Operating : Operating temperature and humidity: environment

23°C ±3°C, 60% rh max. (no condensation)

: Storage temperature and humidity:

10°C to 43°C, 80% rh max. (no condensation) (same as for using the test heads)

: Atmosphere: Avoid use in an atmosphere where dust, vibrations or corrosive gases may occur.

: Floor strength: 500 kg/m² or higher

Insulation resistance : $100 \text{ M}\Omega$ or higher

(DC 500 V between power supply and cabinet)

Withstand voltage: AC 2.2 kV RMS

Accessories : PC accessories (such as a keyboard), 40-

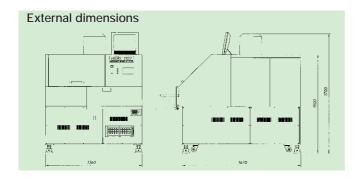
> character width thermal printer, printer cable, printer buffer, leveling jacks, and maintenance

tool set

Main unit dimensions : Approx. 1360 (W) \times 1780 (H) \times 1670(D) mm

(excluding protruding parts)

Mass : Approx. 1200 kg





DISTRIBUTED BY

1109 IMPEDANCE BOARD HITESTER



HIOKI E.E. CORPORATION

HEAD OFFICE:

81 Koizumi, Ueda, Nagano, 386-1192, Japan TEL +81-268-28-0562 / FAX +81-268-28-0568 E-mail: os-com@hioki.co.jp

HIOKI USA CORPORATION

6 Corporate Drive, Cranbury, NJ 08512 USA TEL +1-609-409-9109 / FAX +1-609-409-9108 E-mail: hioki@hiokiusa.com

TKK HIOKI CO.,LTD: NO.66-8,Sec.2,Nan Kan Road,Lu-chu, Taoyuan,Taiwan,R.O.C. TEL +886-3-311-7260 / FAX +886-3-311-8236

HIOKI E.E.CORPORATION Singapore Representative Office:

12 New Industrial Road,#02-04 Thoren Technocentre, Singapore 536202 TEL +65-288-0050 / FAX +65-282-2283 E-mail: kensoh@hioki.per.sg

All information correct as of May. 31, 2001. All specifications are subject to change without notice.