

PRODUCT INFORMATION

- **Available on:** all machines
- **Installation:** At Europlacer factory - On customer's site
- **Comments:** Upgrade kits available for existing electrical testers without Voltmeter.

FEATURES

Europlacer's flagship placement platforms can test the electrical characteristics and polarity of components using an LCR Electrical Test bridge. The tester is standard on iineo+ and xprii+ machines and an option on atom machines.

The integrated component tester is a critical resource for customers working in high integrity sectors such as automotive, defence, medical and avionics. The test function prevents human error by verifying correct feeder loading. More than a simple test for presence, the tester measures electrical values using an LCR bridge. This ensures that incorrect value, out-of-specification or damaged components will not be placed during production. Crucially, the tester can be independently calibrated against all international standards & institutes. It guarantees you and your customer the statutory performance required when working on demanding applications.

Each electrical test is made using Europlacer's precise positioning technology to place the component accurately on the integrated test pad.

This precision permits the testing of devices with very small dimensions, including 01005 packages.

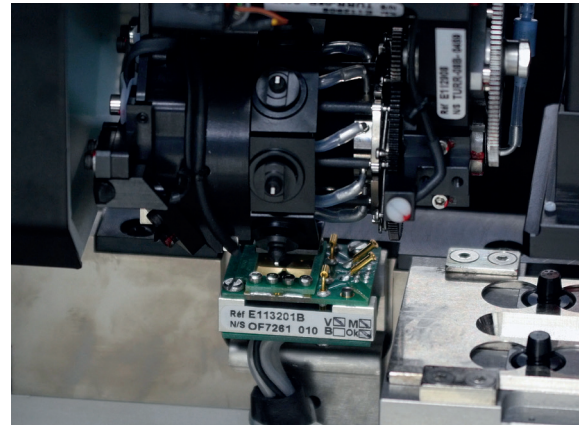
The test pad is mounted securely inside the placement machine and does not compromise other platform resources. The test is performed during the placement process: after picking the component from the reel and before placing it on the board. Incorrect components are automatically rejected. Compared to other test solutions, Europlacer's test pad method delivers better throughput and more accurate measurements of component value.

The tester can measure the characteristics of passive components (resistors, capacitors and inductors) and verify the polarity of diodes. Combined with Europlacer's RC5.16 operating software, the test process will allow you to measure the characteristics of any type of diode with voltages up to 40V.

When paired with Europlacer's traceability option, users can record data on all passed tests and component rejections (e.g. measured values, intended values, etc.), providing confidence that the test and placement process was completed within the required design and production limits.

TECHNICAL DATA

- Component dimension range from 01005 to 8mmx12mm
- Resistors: from 0 to 4M  $\Omega$
- Capacitors: from 1pF to 300 $\mu$ F
- Inductors : from 2 $\mu$ H to 100H
- Diodes: Up to 40V

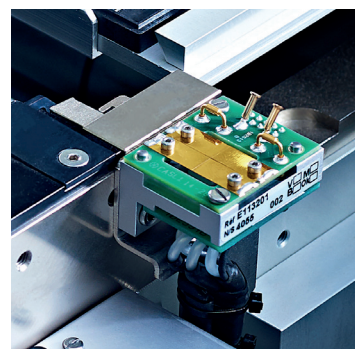


KEY BENEFITS

- **Guarantees a good process**
- **Protects against human error**
- **Wide range of test capabilities: resistors, capacitors, inductors and diodes up to 40V**
- **Higher throughput compared to other systems**
- **Ability to test small sized packages (down to 01005 dimensions)**
- **Links with Traceability technology to log all test data for analysis**

TECHNICAL INFORMATION

The tester is split into two zones for the two applications. One zone is dedicated to the characteristics of passive components. The other zone integrates a voltmeter function to measure voltage and the full characteristics of all kind of diodes (Zener breakdown voltage, threshold voltage for regular and Schottky diodes, polarity, etc.).



A built-in current generator applies a calibrated current of 5mA – an effective and totally safe level that safeguards the electrical integrity of components. The voltmeter uses a static relay to ensure a long operational life.