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Extension of the New Y-RED Test Contactor Generation

The Y-RED test contactor series from Yamaichi Electronics is growing. In addition to IC chip evaluation and validation, the focus is now on failure analysis applications and low inductance laboratory measurements.

With decades of experience in designing full and semi-custom test contactors, the Y-RED combines high-grade technology and standardised single parts with simplified, user-friendly mounting procedure.

As the first product of the new generation Y-RED, the standard hinged test contactor for component qualification applications was released at the end of 2019. Now, several extensions of this product series will follow at once.

The Y-RED Failure Analysis

While the already available Y-RED is mainly used in the evaluation and validation (EV) of IC chips, the new Y-RED test contactor specialises in the sensory failure analysis (FA).

Through an opening in the lid, the entire component is now visible during testing. An inlaid scratch and crack-resistant glass plate with a very wide transmission curve ensures uniform pressure distribution during contacting. These are features to perform chip analysis with Solid Immersion Lens and Emission Microscopy.

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Extended size variety

For DUT package sizes between 1.5 mm x 1.5 mm and 5 mm x 5 mm, a smaller version is also available for both the Y-RED EV and the new FA test contactor. The more compact design of the test contactor not only saves space on the evaluation board/PCB, but also brings the measurement closer to the component. The pitch already starts at 0.3 mm, the application temperature range is specified from -40°C to +150°C. For dimensions larger than 5 mm x 5 mm up to a maximum of 12 mm x 12 mm the large form factor Y-RED is used.

Like the other Y-RED test contactors, also the smaller version is designed for LGAs, QFNs as well as BGAs / (WL)CSPs.

Low-Inductance Probe Pin

A low-inductance pin is also available for laboratory measurements with particularly low inductance requirements. It can be installed in all the Test Contactors presented. Whereby the achievable high performance can be used in diverse areas of application, and the various advantages can be optimally combined.

With a contact height of only 2.80 mm, a self-inductance of less than 0.80 nH is achieved. A pitch between 0.3mm and 0.5mm is provided. The application temperature range covers -40°C to +125°C.

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Press Release

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About Yamaichi Electronics

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems. Their reliability and functional dependability are essential for the success of the overall project. Yamaichi Electronics is established on the world market as a manufacturer of high-quality, reliable components for demanding applications in various markets and applications: semiconductor, industrial automation, automotive, data networking, measurement & testing, medical, mobile computing, embedded computing, and others.

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