BONDING THE STARS







BAMFIT Bonder / Tester 5600

Test System

Test Head The proprietary clamping tool grips the bond foot

from the sides and at a defined height; a touchdown system automatically compensates height variations

in the substrate

Test Tool for heavy wires from 125 to 500 μm;

for ball bonds from 50 µm wire diameter;

user-exchangeable within minutes

Test Force Pull force in Z direction, typically 20 to 40 cN

Test Frequency 60 and 80 kHz, programmable Ultrasonic Generator

Test Amplitude Corresponds to temperature swing in PC test;

programmable between 0 and 1 µm

Test Data Tool position and ultrasonic data are registered

continuously and stored in a SQL data base for

subsequent evaluation

BAMFIT-Tester

The revolutionary **BAMFIT test** can easily be implemented on every base unit of
the 56XX series by installing
a dedicated test head.

The software is closely related to the standard versions for bonders and testers. It is capable of fully automatic testing of any number of bonds, employing automatic adjustments by pattern recognition.

Test results are recorded in a SQL data base and can be evaluated at any time in a variety of ways.

BAMFIT Reliability Test

BAMFIT (Bond Accelerated Mechanical Fatigue Interconnection Test) is an entirely novel test method for assessing the reliability of heavy-wire wedge bonds and thin-wire ball bonds. It is the perfect extension of the classic power cycling test (PC): the cyclic stress imparted to the wire bond by temperature changes is emulated by mechanical stress loading, but at a significantly higher cycle rate. This allows PC tests that can take weeks or months to be simulated within minutes.

The patent-pending BAMFIT tester thus permits a qualitative estimate of the lifetime and reliability of wire bonds, either as process diagnostics or for optimizing bond process parameters.

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Machine Base

Work Area X/Y axes 100x100 mm / Z axis 60 mm

Axes Step resolution 0,25 μ m; Repeatability <2 μ m

Test Head User-exchangeable bond and test heads with automatic identification

Hardware Dual Core PC, 1.6 GHz processor, 4 GB RAM, Ethernet,

4x USB-Hub Front Firewire CCD color camera,

1.4 MPixel with programmable pattern recognition unit

Software Manual or automatic measurements of any number of bonds

CAD data import for easier programming

Dimensions B x T x H - 70 x 65 x 70 cm, weight ca. 80 kg

Connections 100-240 VAC, single phase, 50/60 Hz, max. 500 VA

Standard vacuum tube Ø 6 mm

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