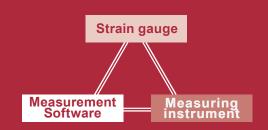
Prevent problems with circuit boards caused by stress

Circuit Board Stress Check System



The problem could be caused by



thermal effects ...

In recent years, due to the use of 'lead-free solder',

- ▶ they have become more vulnerable to mechanical loads
- ▶ and more fragile than ever before.

Measurement and analysis of substrate stress



Prevention of problems!

Circuit board stress check service

stresses such as mechanical/

proposed by Tokyo Measuring Instruments Laboratory Co., Ltd.



Our sales engineers can recommend the

"best gauge" and "mounting position" for your circuit board problem!



"Highly reliable measurements" ensure that even the slightest circuit board problem is not "missed"



Strain analysis using measurement software enables

"identification of substrate stress sources" and "objective data analysis"!





Component mounting

When electronic components are mounted on printed circuit boards, stresses on the components occur due to mounting pressure.



Circuit Board splitting

Surprisingly common component cracks. Stress from circuit board splitting is another factor.



Each process of mounting and assembling printed circuit boards

Circuit testing

Board Functional Test (BFT) In-circuit testing (ICT) May be a cause of stress.



Circuit Board assembly

Is excessive force being applied? Circuit Board warped by reflow, Is the assembly being carried out forcibly?



riangle There are many unseen dangers lurking.

good point

Why not find out about stresses on the eireuit board?

Stresses occurring on components and circuit boards are visualised using strain gauges.

goodie

We can suggest the most suitable gauge and attachment position depending on the purpose aoodı of the test.

The maximum principal strain and its direction can be determined by rosette analysis using triaxial 000d strain gauges.

Other tests such as thermal strain due to temperature changes during embedded board operation, heat cycle tests, etc., please contact us.

intertek

Approval Certificate ISO9001 Design and manufacture of strain gauges, strain measuring equipment and transducers

The contents of this catalog are subject to change without prior notice. The contents of this catalog are as of October 2024. TML Pam E8005A.



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