

TEST REPORT



Your Ref: PO: KHS-P-0601024

Date: 10 Feb 2006

Our Ref: **57S060299-PPG**

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DID: 68851278 / 68851291

Fax: 67784301

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SUBJECT

Testing for RoHS.

CLIENT

Zhejiang HKE Relay Co., Ltd/NingBo HKE Electronics Co., Ltd
28 Jiacun Industrial Area
315135 NingBo City
Zhejiang
China

Attn: Mr Travis Tan

SAMPLE SUBMISSION DATE

30 Dec 2005

SAMPLE DESCRIPTION

One relay sample was received and said to be applicable to the following relay series:

HRA, HRB1, HRS1, HRS1K, HRS1KH3, HRS2, AC3, HRS3, HRS3T, HRS4, HRS4E, HRS4T, HRM, HRM1, HRM2, HRM3, HRM4, HMT2, HRMF, HCP1, HCP2, HCP3, HCP4, V6, V6F, CMP6, CMP7, CMP8, CMP9, L7, LH, LT, CMA1, CMA2, CMA31, CMA32, CMA33, CMA34, CMA36, CMA4, CMA51, CMA52, CMA512, CMA522, CMA53, CMA512, CMA522

The relay was dismantled into 4 parts based on "homogeneous materials".
Refer to result table's P/N and description.

TEST METHOD

a) Cadmium, Lead, Mercury and Hexavalent Chromium

- 1) Sample preparation by EN1122:2001, EN13346:2000, EPA3050B and ISO3613:2000.
- 2) Determination of Cadmium, Lead and Mercury by Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES, ISO 11885:1996).
- 3) Determination of Hexavalent Chromium by ISO 3613: 2000.

b) PBBs and PBDEs

- 1) The sample was extracted with organic solvent and cleaned up with appropriate procedures, followed by analysis using Gas Chromatograph - Mass Spectrometry (GC-MS).
- 2) The result was calculated based on the whole piece of sample.



RESULTS

| No. | P/N and Description | Cd (ppm) | Pb (ppm) | Hg (ppm) | Cr ⁶⁺ (ppm) | PBBs/PBDEs (ppm) |
|-----|---------------------|--------------|--------------|--------------|------------------------|------------------|
| 1 | Relay | - | - | - | - | - |
| a | Plastic Part | Not Detected | 17 | Not Detected | Not Detected | Not Detected |
| b | Copper Connectors | Not Detected | Not Detected | Not Detected | Not Detected | - |
| c | Copper Wires | Not Detected | Not Detected | Not Detected | Not Detected | - |
| d | Metal part | Not Detected | Not Detected | Not Detected | Not Detected | - |


Detection Limit : Cadmium, Cd (5ppm), Lead, Pb (10ppm), Mercury, Hg (5ppm), Hexavalent Chromium, Cr⁶⁺ (5ppm), Polybrominated Biphenyls, PBBs (250ppm) and Polybrominated Diphenyl Ethers, PBDEs (250ppm).

RoHS Limits: Cd (100ppm), Pb (1000ppm), Hg (1000ppm), Cr⁶⁺ (1000ppm), PBBs (1000ppm), and PBDEs (1000ppm)

' - ' denotes Not Applicable.



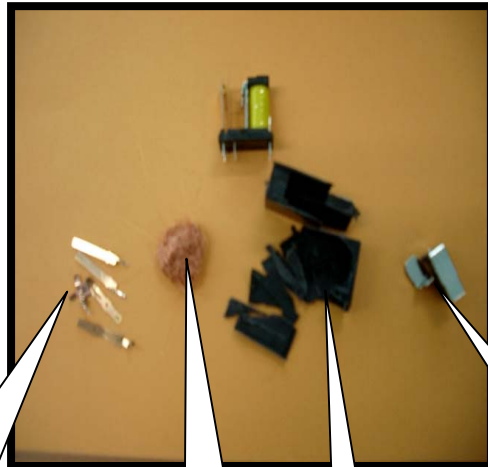
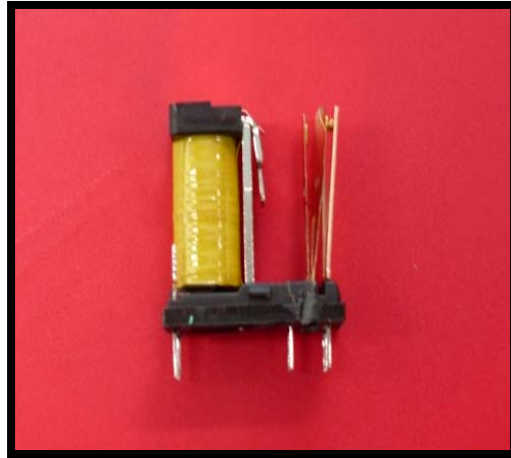
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TECHNICAL EXECUTIVE



CHEN HUAYI, PhD
ASSISTANT VICE PRESIDENT
ELEMENTAL/ENVIRONMENTAL ANALYSIS
TESTING GROUP

Enclosed: Photographs of samples

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b. Copper Connectors

c. Copper Wires

a. Plastic Part

d. Metal Part

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May 2005