

Verification Report (supplementary)

No.: GZ0904027107/CHEM

Date: APR 27, 2009

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DONGGUAN SANYOU ELECTRICAL APPLIANCES CO., LTD
ERHUAN RD.XITOU.ZONE, HOUJIE TOWN, DONGGUAN CITY, GUANGDONG, 523952, CHINA

Sample Description	: Relays
SGS Ref No.	: GZ11720126EC-41.2
Model No. (P.O No.)	: SRU
Test Period	: APR 03, 2009 TO APR 27, 2009
Test Requested	<p>(1) Screening test for Cadmium, Lead, Mercury, Chromium and Bromine contents in the submitted sample according to the requirements of SANYOU.</p> <p>(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers).</p>
Test Method	<p>1 Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant</p> <p>2 Tests was performed for the samples indicated by the photos in the report with test methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated substances in Electrotechnical Products</p> <p>(1) Screening by XRF Spectroscopy</p> <p>(2) Wet Chemical Test Method</p> <p>a. Determination of PBBs and PBDEs by GC/MS.</p>
Test Results	: Please refer to next page
Test Conclusion	: Based on the review of previous reports and verification results of the submitted samples, the results comply with the requirements of SANYOU
Remark	: According to declaration from client, the materials of other parts in model SRU are the same as those in model SRD (data and photos are shown on report GZ0904027106/CHEM)

Signed for and on behalf of
SGS-CSTC Ltd.

Deng Yiqin, Shining
Sr. Engineer

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Details on Verification

Part No.	Part Name	Restricted Substances	Results of EDXRF ⁽¹⁾	No. of Related Test Report	Results in Related Test Report(mg/kg)	Result of Wet Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date	
1	Black plastic shell w/ white printing	Cd	BL	\	\	\	Comply	Apr 03, 2009	
		Pb	BL		\	\	Comply		
		Hg	BL		\	\	Comply		
		Cr ⁶⁺	BL		\	\	Comply		
		PBBS	IN		\	N.D.	Comply		
		PBDEs ^{##}			\	N.D.	Comply		
2	Copper-colored metal sheet (movable)	Cd	BL	\	\	\	Comply	Apr 03, 2009	
		Pb	BL		\	\	Comply		
		Hg	BL		\	\	Comply		
		Cr ⁶⁺	BL		\	\	Comply		
		PBBS	---		\	\	\		
		PBDEs ^{##}			\	\	\		

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Remark

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.
(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GCMSD (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to the requirements of SANYOU (unit: mg/kg)

Element	Polymer	Metal
Cd	BL ≤ 20 < X < 130 ≤ OL	BL ≤ 20 < X < 130 ≤ OL
Pb	BL ≤ 300 < X < 1300 ≤ OL	BL ≤ 300 < X < 1300 ≤ OL
Hg	BL ≤ 50 < X < 1300 ≤ OL	BL ≤ 50 < X < 1300 ≤ OL
Br	BL ≤ 100 < X	---
Cr	BL ≤ 300 < X	BL ≤ 300 < X

X = XRF Screening result

(c) OL = Over Limit, BL = Below Limit, IN = Inconclusive
(d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition

(2) (a) mg/kg = ppm=0.0001%, N.D. = not detected (<MDL), --- = not conducted, \ = not available.
(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr⁶⁺ for polymer & composite sample is 2 mg/kg.

(c) According to IEC 62321:2008, result on Cr⁶⁺ for metal sample is shown as Positive/Negative. Negative = Absence of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ coating.
Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

(d) ## = The exemption of DecabDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008

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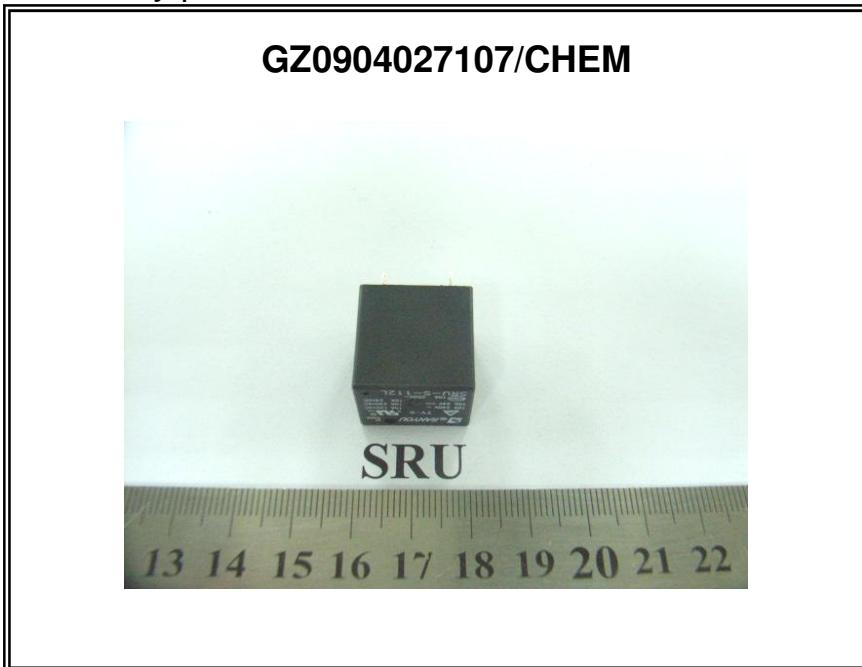
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Photo for original product



Photo for supplementary product

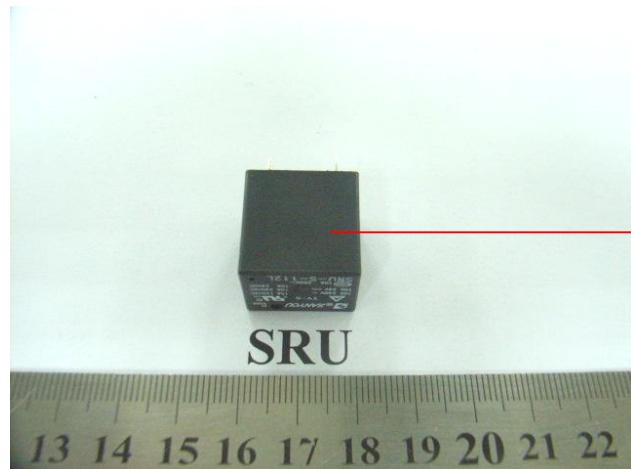


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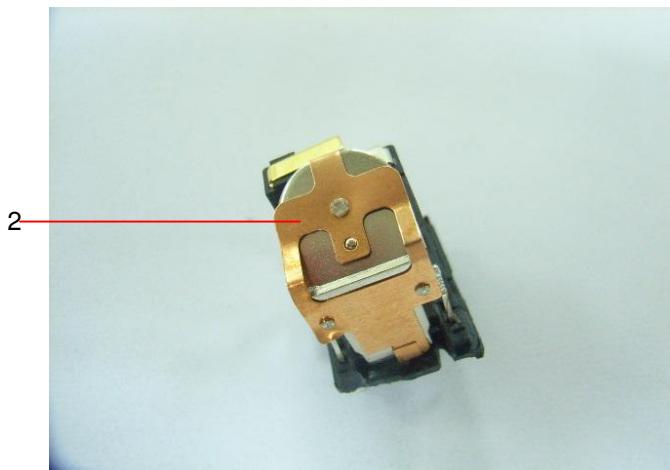
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(SGS authenticate the photo on original report only)

*** End of Report ***

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