



Verification Report (supplementary)

No.: GZ1104042418/CHEM

Date: MAY 06, 2011 Page 1 of 6

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

Sample Name : Relay
SGS Ref No. : GZ13062386EC-48.16
Model No. (P.O No.) : SYS1
Test Period : APR 13, 2011 TO MAY 06, 2011
Test Requested (1) Screening test for Cadmium, Lead, Mercury, Chromium and Bromine contents in the submitted sample according to the requirements of SANYOU.
(2) To determine the Mercury Content.
(3) To determine the Hexavalent Chromium Content.
(4) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers).
Test Method 1 Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
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
(1) Screening by XRF Spectroscopy
(2) Wet Chemical Test Method
a. Determination of Mercury by ICP.
b. Determination of Hexavalent Chromium by Colorimetric Method.
c. Determination of PBBs and PBDEs by GC/MS.
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 SYS1 are the same as those in model SRD (data and photos are shown on report GZ1104042403/CHEM)

Signed for and on behalf of
SGS-CSTC Ltd.

Yolanda Yan
Approved Signatory

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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	Blue plastic w/ white printing (outer shell)	Cd	BL	\	\	\	Comply	Apr 13, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	IN		\	N.D.	Comply	
		PBDEs			\	N.D.	Comply	
2	White plastic (bobbin) (in No.1)	Cd	BL	\	\	\	Comply	Apr 13, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	IN		\	N.D.	Comply	
		PBDEs			\	N.D.	Comply	
3	Copper-colored metal sheet (armature) (on No.2)	Cd	BL	\	\	\	Comply	Apr 13, 2011
		Pb	BL		\	\	Comply	
		Hg	IN		\	N.D.	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
4	Golden metal (contact dot) (on No.3)	Cd	BL	\	\	\	Comply	Apr 13, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	IN		\	Negative	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
5	Transparent adhesive plastic tape (on No.1)	Cd	BL	\	\	\	Comply	Apr 13, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs			\	\	Comply	
6	Copper-colored metal (moveable) (in No.1)	Cd	BL	\	\	\	Comply	Apr 13, 2011
		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.

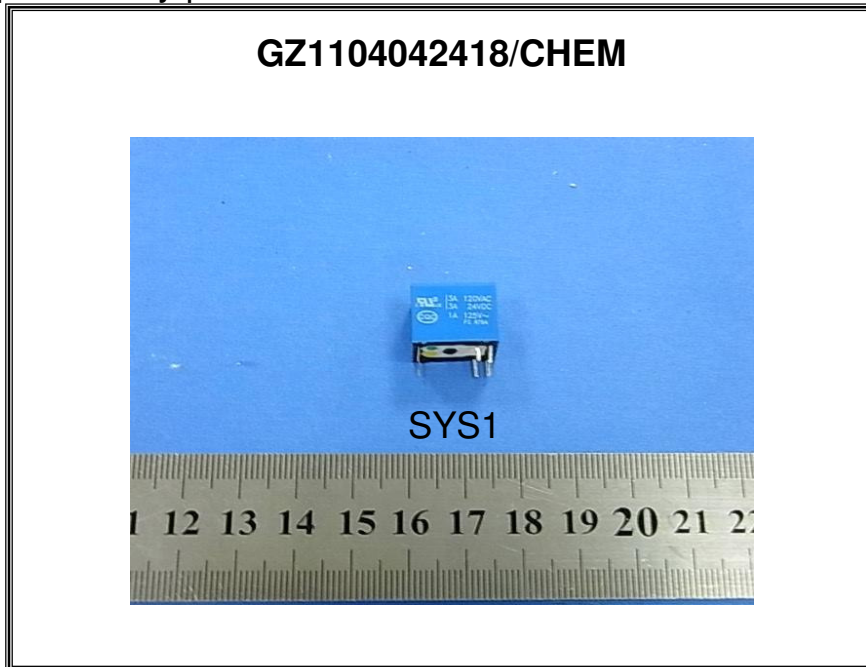
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Photo for original product



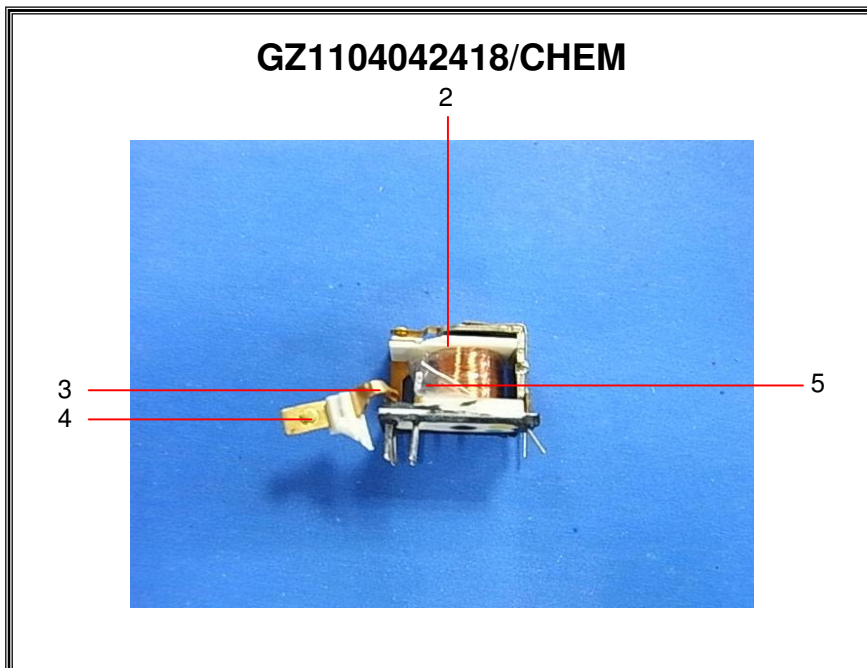
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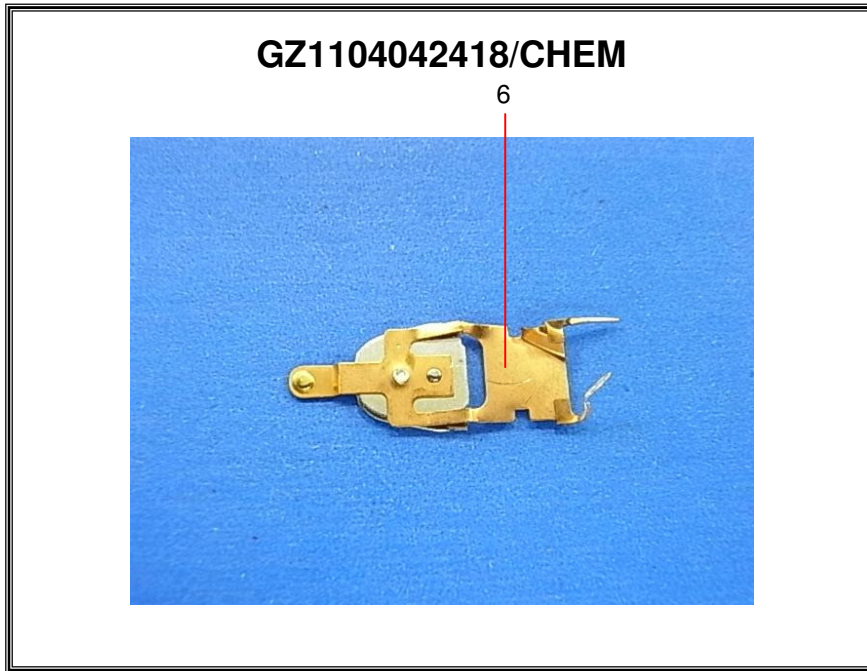




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(SGS authenticate the photo on original report only)
*** End of Report ***

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