

Verification Report/验证报告 No. SH9230253/CHEM Date: Dec. 28, 2009 Page 1 of 24

Applicant : SHANGHAI ACREL CO.,LTD. 公司名称 : 上海安科瑞电气股份有限公司

Address: No.253, Yulv RD, Jiading District, Shanghai, P.R.China

地址 :上海市嘉定区马东工业园育绿路 253 号

Sample Name : PZ Programmable intelligent Meters

样品名称 : 可编程智能电测表

SGS Ref : 10092112 SGS 参考号 : 10092112

Model No. : PZ 型号 : PZ

Verification Period : Nov.27, 2009 to Dec.28, 2009

验证日期 : 2009 年 11 月 27 日 至 2009 年 12 月 28 日

Verification Requested : With reference to RoHS Directive 2002/95/EC, and its amendment directives

验证要求 : 参照 RoHS 指令 2002/95/EC 及后续修正指令

Verification Method and Details on Verification : Please refer to next pages

验证方法和验证报告内容 : 见后续页

Verification Conclusion : Based on the review of previous reports and verification results of the submitted

samples, the results comply with the RoHS Directive 2002/95/EC and its

subsequent amendments.

验证结论 : 依据对以前报告的评审和所提供样品的相关验证,测试结果符合欧盟 RoHS 指令

2002/95/EC 以及后续修正指令的要求。

Note : The test results are related only to the tested items. The report shall not be

reproduced except in full without the written approval of the testing laboratory.

备注 : 本报告测试数据仅代表所测试样品的结果,未经实验室书面授权,不得部分复制

本报告。

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Sandy Hao Lab Manager

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tE&E:(86-21) 61402553 fE&E:(86-21) 64953679 HL:(86-21) 61402594 HL:(86-21) 54500353



No. SH9230253/CHEM Date: Dec. 28, 2009 Page 2 of 24

Verification Method

验证方法

- Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
- Tests was performed for the samples indicated by the photos in the report with test methods reference to IEC62321:2008: 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 Lead & Cadmium by ICP or AAS
 - Determination of Mercury by ICP
 - Determination of Hexavalent Chromium by Spot test or Colorimetric Method
 - d. Determination of PBBs and PBDEs by GC/MS
- 拆分申请者提供的成品, 并评估样品和相关检测报告
- 参照 IEC62321:2008: 电子电器产品中六种限用物质含量的测定程序。仅对本报 告照片中标识的样品进行了下列测试分析
 - (1) 用 X 射线荧光分析仪器进行筛选
 - (2) 湿法化学测试方法
 - a. 用 ICP 或 AAS 方法确定铅和镉的含量
 - b. 用 ICP 测定汞的含量
 - c. 用点测试法或比色法测定六价铬的含量
 - d. 用 GC/MS 测定 PBBs(多溴联苯)和 PBDEs(多溴联苯醚) 的含量

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 3 of 24

Details on Verification/验证报告内容

Part No. 样品 编号	Part Description 样品描述	Restricted Substances 限用物质	Results of EDXRF ⁽¹⁾ EDXRF 测试 结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试 结果 ⁽²⁾ (mg/kg)	No. of Related Test Report 相关报 告号码	Results in Related Test Report 相关测试 报告结果 (mg/kg)	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/ 再次提交日期
		Cd	BL			\	Comply/符合	
	0 (-)	Pb	BL			\	Comply/符合	
1	Caesious plastic (shell)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	青灰色塑料外壳	Cr ⁶⁺	BL		,	\	Comply/符合	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		PBBs	IN	ND		\	Comply/符合	
		PBDEs		318		\	Comply/符合	
		Cd	BL			\	Comply/符合	
	Gray plastic (paster)	Pb	BL			\	Comply/符合	
2	(shell)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	外壳上灰色塑料贴纸	Cr ⁶⁺	BL		,	\	Comply/符合	,
	月九二八日至月州和	PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	
		Cd	BL			\	Comply/符合	
	Golden metal (insert)	Pb	OL	19305▲		\	Comply/符合	
3	(shell)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	外壳上金色金属嵌件	Cr ⁶⁺	BL			\	Comply/符合	,
		PBBs				\	\	
		PBDEs				\	\	
		Cd	BL			\	Comply/符合	
	Silvery metal	Pb	BL			\	Comply/符合	
4	(connecting sheet) (shell)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	外壳上银色金属连接片	Cr ⁶⁺	BL			\	Comply/符合	
		PBBs				\	\	
		PBDEs				\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		Cd	BL			\	Comply/符合	
	Silvery metal (screw)	Pb	OL	33215▲		\	Comply/符合	Nov 27, 2000/
5	(shell)	Hg Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009/ Dec.18, 2009
	外壳上银色金属螺丝		BL			\	Comply/符合	DC0.10, 2000
		PBBs PBDEs				\	\	
		Cd	BL			\	Comply/符合	
	M. II.	Pb	BL			\	Comply/符合	
	Yellow paper	Hg	BL			\	Comply/符合	
6	(eligibility label) (shell)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	外壳上黄色纸合格标签	PBBs	DL			\	Comply/符合	
		PBDEs	BL			\	Comply/符合	
			DI			\		
		Cd	BL			\	Comply/符合	
	Silvery plastic (label)	Pb	BL			\	Comply/符合	
7	(shell)	Hg Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	外壳上银色塑料标签		BL			\	Comply/符合	
		PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 4 of 24

Part No. 样品 编号	Part Description 样品描述	Restricted Substances 限用物质	Results of EDXRF ⁽¹⁾ EDXRF 测试 结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试 结果 ⁽²⁾ (mg/kg)	No. of Related Test Report 相关报 告号码	Results in Related Test Report 相关测试 报告结果 (mg/kg)	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/ 再次提交日期
		Cd	BL			\	Comply/符合	
	Tuesday avest pleatic (abiald)	Pb	BL			\	Comply/符合	
8	Transparent plastic (shield)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	透明塑料罩	Cr ⁶⁺	BL				Comply/符合	
		PBBs	BL			\	Comply/符合	
		PBDEs	DI			\	Comply/符合	
		Cd Pb	BL BL			\	Comply/符合	
	Purple transparent plastic	Hg	BL			\	Comply/符合 Comply/符合	
9	(paster) (shield)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	罩上紫色透明塑料贴纸	PBBs	DL			\	Comply/符合	
		PBDEs	BL			\	Comply/符合	
		Cd	BL			,	Comply/符合	
	Silver-blue metal (screw)	Pb	BL			\	Comply/符合	
10	(shield)	Hg	BL		,	<u>,</u>	Comply/符合	Nov. 07, 0000
10		Cr ⁶⁺	IN	Negative	\	\	Comply/符合	Nov.27, 2009
	罩上银蓝色金属螺丝	PBBs				\	\	
		PBDEs				\	\	
		Cd	BL			\	Comply/符合	
	Green plastic (shell)	Pb	BL			\	Comply/符合	
11	(connection block)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	接线柱上绿色塑料外壳	Cr ⁶⁺	BL			\	Comply/符合	
	以 以任立(4)已至(1)(1)(1)	PBBs	IN	ND			Comply/符合	
		PBDEs		ND		\	Comply/符合	
	Silvery metal	Cd	BL				Comply/符合	
	(contact piece)	Pb	BL BL			\	Comply/符合	
12	(connection block)	Hg Cr ⁶⁺	BL		\	\	Comply/符合 Comply/符合	Nov.27, 2009
	接线柱上银色金属触片	PBBs	DL			\	Comply/行日	
	投 绕任工 版 L 亚 / 两 / 图 / 1	PBDEs				\	\	
	011	Cd	BL			\	Comply/符合	
	Silvery metal	Pb	OL	21144▲		\	Comply/符合	
13	(wire press block)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
.0	(connection block)	Cr ⁶⁺	BL		,	\	Comply/符合	1101.27, 2000
	接线柱上银色金属压线块	PBBs				\	\	
		PBDEs				\	\	
		Cd	BL			\	Comply/符合	
	Silvery metal (screw)	Pb	BL			\	Comply/符合	Nov 27, 2000/
14	(connection block)	Hg Cr ⁶⁺	BL	Nogotivo	\	\	Comply/符合	Nov.27, 2009/ Dec.15, 2009
	接线柱上银色金属螺丝	PBBs	IN	Negative 		\	Comply/符合	3 333, 2000
		PBDEs				\	\	
		FDDES				\	\	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 5 of 24

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	Silvery metal (shell)	Cd	BL			\	Comply/符合	
	(crystal resonator) (TX1)	Pb	BL			\	Comply/符合	
15	(PCB) (PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3-3 晶振 TX1	Cr ⁶⁺	BL			\	Comply/符合	
	上银色金属外壳	PBBs PBDEs				\	\	
-	工队已並為打几		DI			\	Comply/符合	
	Green PCB (body)	Cd Pb	BL BL			\	Comply/符合	
	(PZ96AUI3-3) 1	Hg	BL			\	Comply/符合	
16	绿色 PCB PZ96AUI3-3 本	Cr ⁶⁺	BL		\		Comply/符合	Nov.27, 2009
	体	PBBs		ND			Comply/符合	
	1/4 z	PBDEs	IN	ND		\	Comply/符合	
	Red transparent plastic	Cd	BL			\	Comply/符合	
	(LED) (LED7) (PCB)	Pb	BL			\	Comply/符合	
17	(PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov. 07, 0000
17	PCB PZ96AUI3-3 LED	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
		PBBs	IN	ND		\	Comply/符合	
	LED7上红色透明塑料	PBDEs	IIN	ND		\	Comply/符合	
	Black coating (digital	Cd	BL			\	Comply/符合	
	display module) (LED1)	Pb	BL			\	Comply/符合	
18	(PCB) (PZ96ÁÙI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3-3 数码显示	Cr ⁶⁺	BL		,	\	Comply/符合	,
	模块 LED1 上黑色涂层	PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	
	White epoxy (filling)	Cd	BL			\	Comply/符合	
	(digital display module)	Pb	BL				Comply/符合	
10	(LED1) (PCB) (PZ96AUI3-3)	Hg Cr ⁶⁺	BL BL		,	\	Comply/符合	Na. 07 0000
19	PCB PZ96AUI3-3 数码显示		DL		\	` `	Comply/符合	Nov.27, 2009
	模块 LED1 上白色环氧树脂	PBBs	BL			\	Comply/符合	
	填充物	PBDEs	DL			\	Comply/符合	
	Transparent adhesive	Cd	BL			\	Comply/符合	
	(digital display module)	Pb	BL			\	Comply/符合	
20	(LED1) (PCB) (PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009/
	PCB PZ96AUI3-3 数码显示	Cr ⁶⁺	BL			\	Comply/符合	Dec.15, 2009
	模块 LED1 上透明胶	PBBs	IN	ND		\	Comply/符合	
\vdash		PBDEs	- Di	ND		,	Comply/符合	
	Black PCB (body)	Cd	BL			\	Comply/符合	
	(digital display module)	Pb	BL BL				Comply/符合 Comply/符合	Nov.27, 2009/
	(LED1) (PCB) (PZ96AUI3-3)	Hg Cr ⁶⁺	BL		\	\	Comply/符合	Dec.15, 2009/
	PCB PZ96AUI3-3 数码显示模	PBBs	DL	ND		\	Comply/符合	300.10, 2000
	块 LED1 上黑色 PCB 本体	PBDEs	IN	ND		\ \ \	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 6 of 24

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	White plastic (shell)	Cd	BL			\	Comply/符合	
	(digital display module)	Pb	BL			\	Comply/符合	
22	(LED1) (PCB) (PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3-3 数码显示	Cr ⁶⁺	BL			\	Comply/符合	,
	模块 LED1 上白色塑料外壳	PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	
	Black plastic (key)	Cd	BL			\	Comply/符合	
	(touch switch) (K4) (PCB)	Pb	BL BL			\	Comply/符合	Nov. 07, 0000/
23	(PZ96AUI3-3)	Hg Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009/ Dec.15, 2009
	PCB PZ96AUI3-3 轻触开关	PBBs	DL	ND		\	Comply/符合 Comply/符合	D00.10, 2000
	K4 上黑色塑料按键	PBDEs	IN	ND		\	Comply/符合	
	Black plastic (shell)	Cd	BL			\	Comply/符合	
		Pb	BL			\	Comply/符合	
	(touch switch) (K4) (PCB)	Hg	BL			\	Comply/符合	
24	(PZ96AUI3-3)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3-3 轻触开关	PBBs				,	Comply/符合	
	K4 上黑色塑料外壳	PBDEs	BL			\	Comply/符合	
	Silvery metal (connecting	Cd	BL			\	Comply/符合	
	sheet) (touch switch) (K4)	Pb	BL			\	Comply/符合	
25	(PCB) (PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
23	PCB PZ96AUI3-3 轻触开关	Cr ⁶⁺	BL		`	\	Comply/符合	1404.27, 2009
		PBBs				\	\	
	K4 上银色金属连接片	PBDEs				\	\	
	Silvery metal (top cover)	Cd	BL			\	Comply/符合	
	(touch switch) (K4) (PCB)	Pb	BL			\	Comply/符合	
26	(PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3-3 轻触开关	Cr ⁶⁺	BL			\	Comply/符合	
	K4 上银色金属上盖	PBBs PBDEs				\	\	
		Cd	BL			\	Comply/符合	
	Copper-colored metal	Pb	BL			\	Comply/符合	
	(elastic piece)	Hg	BL			\	Comply/符合	
27	(touch switch) (K4) (PCB)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	(PZ96AUI3-3) PCB PZ96AUI3-3 轻触开关	PBBs				\	/	
	K4 上铜色金属弹片	PBDEs				\	\	
	Disable IC (basks) (ICT)	Cd	BL			\	Comply/符合	
	Black IC (body) (IC5)	Pb	BL			\	Comply/符合	
28	(PCB) (PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
20	PCB PZ96AUI3-3 上黑色	Cr ⁶⁺	BL		l '	\	Comply/符合	. 404.27, 2009
	IC IC5 本体	PBBs	IN	ND		\	Comply/符合	
		PBDEs		ND		\	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 7 of 24

Part No. 样品 编号	Part Description 样品描述	Restricted Substances 限用物质	Results of EDXRF ⁽¹⁾ EDXRF 测试 结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试 结果 ⁽²⁾ (mg/kg)	No. of Related Test Report 相关报 告号码	Results in Related Test Report 相关测试 报告结果 (mg/kg)	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/ 再次提交日期
	Black IC (body) (IC1)	Cd	BL			\	Comply/符合	
	(PCB) (PZ96AUI3-3)	Pb	BL			\	Comply/符合	
29	PCB PZ96AUI3-3 上黑色	Hg	BL		\	\	Comply/符合	Nov.27, 2009
		Cr ⁶⁺	BL			\	Comply/符合	
	IC IC1 本体	PBBs	BL			\	Comply/符合	
		PBDEs	Di			\	Comply/符合	
	Yellow tantalum capacitor	Cd	BL BL			\	Comply/符合	
	(body) (C15) (PCB)	Pb Hg	BL				Comply/符合 Comply/符合	
30	(PZ96AUI3-3)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3-3 上黄色钽	PBBs	DL				Comply/符合	
	电容 C15 本体	PBDEs	BL				Comply/符合	
		Cd	BL			,	Comply/符合	
	Black plastic (socket) (JK1)	Pb	BL				Comply/符合	
0.4	(PCB) (PZ96AUI3-3)	Hg	BL		,	<u>'</u>	Comply/符合	Nov.27, 2009/
31	PCB PZ96AUI3-3 插座 JK1	Cr ⁶⁺	BL		\	\	Comply/符合	Dec.15, 2009
	上黑色塑料	PBBs	INI	ND		\	Comply/符合	
	立 凸至打	PBDEs	IN	402		\	Comply/符合	
	Coldon motal (nin) (applicat)	Cd	BL			\	Comply/符合	
	Golden metal (pin) (socket)	Pb	BL			\	Comply/符合	
32	(JK2) (PCB) (PZ96AUI3-3)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
-	PCB PZ96AUI3-3 插座 JK2	Cr ⁶⁺	BL		,	\	Comply/符合	
	上金色金属插针	PBBs				\	\	
		PBDEs	Di			\	\ \ \	
	Green ceramic filter (body)	Cd	BL			\	Comply/符合	
	(RT1) (PCB) (PZ96AUI3S-1)	Pb Hg	BL BL				Comply/符合 Comply/符合	
33	PCB PZ96AUI3S-1 上绿色	Cr ⁶⁺	IN	ND	\	\	Comply/符合	Nov.27, 2009
	陶瓷滤波器 RT1 本体	PBBs	IIN			\	Comply/符合	
	两瓦伲伙船 П II	PBDEs	BL			<u>'</u>	Comply/符合	
	Silvery metal (pin)	Cd	BL			\	Comply/符合	
	(controlled silicon) (IC1)	Pb	BL			\	Comply/符合	
24	(PCB) (PZ96AUI3S-1)	Hg	BL		,	\	Comply/符合	Nov.27, 2009
34		Cr ⁶⁺	BL		\	\	Comply/符合	NOV.27, 2009
	PCB PZ96AUI3S-1 可控硅	PBBs				\	\	
	IC1 上银色金属引脚	PBDEs				\	\	
	Black controlled silicon	Cd	BL			\	Comply/符合	
	(body) (IC1) (PCB)	Pb	BL			\	Comply/符合	
35	(PZ96AÙI3S-1) PCB	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PZ96AUI3S-1 上黑色可控	Cr ⁶⁺	BL			\	Comply/符合	,
	硅 IC1 本体	PBBs	BL			/	Comply/符合	
	性口一个件	PBDEs				\	Comply/符合	

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200233 邮编: 200233



No. SH9230253/CHEM Date: Dec. 28, 2009 Page 8 of 24

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36	Silvery metal (controlled silicon) (IC1) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 可控硅 IC1 上银色金属	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL BL		\	\ \ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009
37	Black IC (body) (IC5) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 上黑色 IC IC5 本体	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL BL	 ND ND	\	\ \ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009/ Dec.15, 2009
38	Black diode (body) (D5) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 上黑色 二极管 D5 本体	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL IN	 ND ND	\	\ \ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009/ Dec.15, 2009
39	Silvery metal (pin) (diode) (D5) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 二极管 D5 上银色金属引脚	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL BL		\	\ \ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009
40	Black audion (body) (IC3) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 上黑色 三极管 IC3 本体	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL BL	 ND ND	\	\ \ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009/ Dec.15, 2009
41	Blue ceramic capacitor (body) (C2) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 上蓝色陶瓷 电容 C2 本体	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL BL	 ND ND	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009/ Dec.15, 2009
42	Black rectifier bridge (body) (BR1) (PCB) (PZ96AUI3S-1) PCB PZ96AUI3S-1 上黑色 整流桥 BR1 本体	Cd Pb Hg Cr ⁶⁺ PBBs PBDEs	BL BL BL IN	 ND ND	\	\ \ \ \ \	Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合 Comply/符合	Nov.27, 2009/ Dec.15, 2009

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 9 of 24

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	Silvery metal (pin) (socket)	Cd	BL			\	Comply/符合	
	(JK1) (PCB) (PZ96AUI3S-1)	Pb	BL			\	Comply/符合	
43	PCB PZ96AUI3S-1 插座	Hg Cr ⁶⁺	BL BL		\		Comply/符合 Comply/符合	Nov.27, 2009
	JK1 上银色金属插针	PBBs	DL			\	\	
	JICI工版已並周刊	PBDEs				\	\	
	Cilvery metal (coldering tip)	Cd	BL			\	Comply/符合	
	Silvery metal (soldering tin) (PCB) (PZ96AUI3S-1)	Pb	BL			\	Comply/符合	
44	, , ,	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 上银色	Cr ⁶⁺	BL			\	Comply/符合	
	金属焊锡	PBBs PBDEs				\	\	
	Green coating (magnetic	Cd	BL			\	Comply/符合	
	circle inductor) (L1) (PCB)	Pb	BL			\	Comply/符合	
45	(PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
10	PCB PZ96AUI3S-1 磁环电	Cr ⁶⁺	BL		`	\	Comply/符合	1404.27, 2000
	感 L1 上绿色涂层	PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	
	Black ferrite (magnetic	Cd Pb	BL			\	Comply/符合	
	circle inductor) (L1) (PCB)	Hg	BL BL			\	Comply/符合 Comply/符合	
46	(PZ96AUI3S-1)	Cr ⁶⁺	BL		\		Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 磁环电	PBBs				\	\	
	感 L1 上黑色铁氧体	PBDEs				\	\	
	Copper-colored metal	Cd	BL			\	Comply/符合	
	(loop) (magnetic circle	Pb	BL			\	Comply/符合	
	inductor) (L1) (PCB)	Hg	BL			\	Comply/符合	
47	(PZ96AUI3S-1)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 磁环电	PBBs				\	\	
	感 L1 上铜色金属线圈	PBDEs				\	\	
	Yellow plastic (bracket)	Cd	BL			\	Comply/符合	
	(magnetic circle inductor)	Pb	BL			\	Comply/符合	
48	(L1) (PCB) (PZ96AUI3S-1)	Hg O 6+	BL		\		Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 磁环电	Cr ^{s+} PBBs	BL			\	Comply/符合	
	感 L1 上黄色塑料支架	PBDEs	BL			\	Comply/符合 Comply/符合	
	Dark blue plastic (shell)	Cd	BL			,	Comply/符合	
	(electrolytic capacitor) (C1)	Pb	BL			,	Comply/符合	
40	(PCB) (PZ96AUI3S-1)	Hg	BL		,	\	Comply/符合	Nov 07, 0000
49	PCB PZ96AUI3S-1 电解电	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
		PBBs	BL			\	Comply/符合	
	容 C1 上深蓝色塑料外壳	PBDEs	DL			\	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 10 of 24

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	Silvery metal (shell)	Cd	BL			\	Comply/符合	
	(electrolytic capacitor) (C1)	Pb	BL			\	Comply/符合	
50	(PCB) (PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 电解电	Cr ⁶⁺	BL			\	Comply/符合	
	容 C1 上银色金属外壳	PBBs PBDEs				\	\	
	Brown electrolytic paper	Cd	BL			\	Comply/符合	
	(electrolytic capacitor) (C1)	Pb	BL			\	Comply/符合	
	(PCB) (PZ96AUI3S-1)	Hg	BL		,	<u>'</u>	Comply/符合	
51		Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 电解电	PBBs	DI			\	Comply/符合	
	容 C1 上棕色电解纸	PBDEs	BL			\	Comply/符合	
	Gray metal (aluminum foil)	Cd	BL			\	Comply/符合	
	(electrolytic capacitor) (C1)	Pb	BL			\	Comply/符合	
52	(PCB) (PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
0_	PCB PZ96AUI3S-1 电解电	Cr ⁶⁺	BL		,	\	Comply/符合	,
	容 C1 上灰色金属铝箔	PBBs				\		
		PBDEs				\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	Silvery metal (pin)	Cd	BL				Comply/符合	
	(electrolytic capacitor) (C1)	Pb Hg	BL BL			\	Comply/符合 Comply/符合	
53	(PCB) (PZ96AUI3S-1)	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 电解电	PBBs	DL			\	\	
	容 C1 上银色金属引脚	PBDEs				\	\	
	Black rubber (sealed washer)	Cd	BL			\	Comply/符合	
	(electrolytic capacitor) (C1)	Pb	BL			\	Comply/符合	
54	(PCB) (PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
34	PCB PZ96AUI3S-1 电解电	Cr ⁶⁺	BL		\	\	Comply/符合	1404.27, 2009
	容 C1 上黑色橡胶密封垫	PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	
	Black ferrite (framework)	Cd	BL			\	Comply/符合	
	(transformer) (T1) (PCB)	Pb	BL			\	Comply/符合	
55	(PZ96AUI3S-1)	Hg Cr ⁶⁺	BL BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 变压器	PBBs	BL			\	Comply/符合	
	T1 上黑色铁氧体骨架	PBDEs				\	\	
	Black plastic (bracket)	Cd	BL			,	Comply/符合	
	(transformer) (T1) (PCB)	Pb	BL			\	Comply/符合	
	(PZ96AUI3S-1)	Hg	BL		,	\	Comply/符合	Nav. 07, 0000
56		Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 变压器	PBBs	Di			\	Comply/符合	
	T1 上黑色塑料支架	PBDEs	BL			\	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 11 of 24

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	Yellow plastic (adhesive	Cd	BL			\	Comply/符合	
	tape) (transformer) (T1)	Pb	BL			\	Comply/符合	
57	(PCB) (PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 变压器	Cr ⁶⁺	BL			\	Comply/符合	,
	T1 上黄色塑料胶带	PBBs	BL			\	Comply/符合	
		PBDEs	D.			,	Comply/符合	
	Copper-colored metal	Cd	BL			\	Comply/符合	
	(loop) (transformer) (T1)	Pb Hg	BL BL			\	Comply/符合 Comply/符合	
58	(PCB) (PZ96AUI3S-1)	⊓g Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 变压器	PBBs	DL			\	\	
	T1 上铜色金属线圈	PBDEs				,	\	
	DI 1 (); (I; I ;)	Cd	BL			\	Comply/符合	
	Black ferrite (I inductor)	Pb	BL			\	Comply/符合	
59	(L2) (PCB) (PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
33	PCB PZ96AUI3S-1 I 字电感	Cr ⁶⁺	BL		`	\	Comply/符合	1404.27, 2003
	L2 上黑色铁氧体	PBBs				\	\	
		PBDEs				\	\	
	Copper-colored metal	Cd	BL			\	Comply/符合	
	(loop) (I inductor) (L2)	Pb	BL			\	Comply/符合	
60	(PCB) (PZ96AUI3S-1)	Hg Cr ⁶⁺	BL BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 I 字电感	PBBs	BL			\	Comply/符合	
	L2 上铜色金属线圈	PBDEs				\	\	
	Black plastic (sheath)	Cd	BL			,	Comply/符合	
	(I inductor) (L2) (PCB)	Pb	BL			\	Comply/符合	
0.4	(PZ96AUI3S-1)	Hg	BL		,	\	Comply/符合	N 07 0000
61	,	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 I 字电感	PBBs	DI			\	Comply/符合	
	L2 上黑色塑料护套	PBDEs	BL			\	Comply/符合	
	Yellow plastic (shell)	Cd	BL			\	Comply/符合	
	(capacitor) (C19) (PCB)	Pb	BL			\	Comply/符合	
62	` (PZ96AUI3Ś-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009/
02	PCB PZ96AUI3S-1 安规电	Cr ⁶⁺	BL		,	\	Comply/符合	Dec.15, 2009
	容 C19 上黄色塑料外壳	PBBs	IN	ND		\	Comply/符合	
	台 UIS 工典 巴塞科尔克	PBDEs		ND		\	Comply/符合	
	Yellow epoxy (capacitor)	Cd	BL			\	Comply/符合	
	(C19) (PCB) (PZ96AUI3S-1)	Pb	BL			\	Comply/符合	
63		Hg G 6+	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 安规电	Cr ⁶⁺	BL			\	Comply/符合	
	容 C19 上黄色环氧树脂	PBBs	BL			\	Comply/符合	
		PBDEs				\	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 12 of 24

Part No. 样品 编号	Part Description 样品描述	Restricted Substances 限用物质	Results of EDXRF ⁽¹⁾ EDXRF 测试 结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试 结果 ⁽²⁾ (mg/kg)	No. of Related Test Report 相关报 告号码	Results in Related Test Report 相关测试 报告结果 (mg/kg)	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/ 再次提交日期
	Silvery plastic (film)	Cd	BL			\	Comply/符合	
	(capacitor) (C19) (PCB)	Pb	BL			\	Comply/符合	
64	(PZ96AUI3S-1)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96AUI3S-1 安规电	Cr ⁶⁺	BL			\	Comply/符合	
	容 C19 上银色塑料膜	PBBs PBDEs	BL				Comply/符合	
-	I O I I I I I I I I I I I I I I I I I I		DI			\	Comply/符合	
	Black plastic (socket) (JK1)	Cd Pb	BL BL				Comply/符合 Comply/符合	
	(PCB) (PZ96LAUI3X-2)	Hg	BL			\	Comply/符合	
65	PCB PZ96LAUI3X-2 插座	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	JK1 上黑色塑料	PBBs				\	Comply/符合	
	JKI工黑色垄科	PBDEs	BL			\	Comply/符合	
	Silvery metal	Cd	BL			,	Comply/符合	
	(screw with washer)	Pb	BL			\	Comply/符合	
	(socket) (JK1) (PCB)	Hg	BL			\	Comply/符合	
66	, , , , , , ,	Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	(PZ96LAUI3X-2) PCB PZ96LAUI3X-2 插座	PBBs				\	\	
	JK1 上银色金属垫片	PBDEs				\	\	
	Silvery metal (pin) (socket)	Cd	BL			\	Comply/符合	
		Pb	BL			\	Comply/符合	
67	(JK1) (PCB) (PZ96LAUI3X-2)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96LAUI3X-2 插座	Cr ⁶⁺	BL			\	Comply/符合	,
	JK1 上银色金属插脚	PBBs				\		
		PBDEs	Di			\	O a rea ml 1 1/5/5 A	
	Blue resistor (body) (R1)	Cd Pb	BL BL				Comply/符合 Comply/符合	
	(PCB) (PZ96LAUI3X-2)	Hg	BL			\	Comply/符合	
68	PCB PZ96LAUI3X-2 上蓝色	Cr ⁶⁺	BL		\		Comply/符合	Nov.27, 2009
	电阻 R1 本体	PBBs				\	Comply/符合	
	电阻 日1 平 [4]	PBDEs	BL			<u>'</u>	Comply/符合	
	Blue plastic (shell)	Cd	BL			\	Comply/符合	
	(film capacitor) (C1) (PCB)	Pb	BL			Ì	Comply/符合	
60	(PZ96LAUI3X-2)	Hg	BL		,	\	Comply/符合	Na. 07 0000
69		Cr ⁶⁺	BL		\	\	Comply/符合	Nov.27, 2009
	PCB PZ96LAUI3X-2 薄膜电	PBBs	DI			\	Comply/符合	
	容 C1 上蓝色塑料外壳	PBDEs	BL			\	Comply/符合	
	Blue plastic (shell)	Cd	BL			\	Comply/符合	
	(voltage inductor) (T3)	Pb	BL			\	Comply/符合	
70	(PCB) (PZ96LAUI3X-2)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
, ,	PCB PZ96LAUI3X-2 电压互	Cr ⁶⁺	BL		,	\	Comply/符合	1404.27, 2009
	感器 T3 上蓝色塑料外壳	PBBs	IN	ND		\	Comply/符合	
	窓命 13 上監巴室附外冗	PBDEs		ND		\	Comply/符合	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 13 of 24

Part No. 样品 编号	Part Description 样品描述	Restricted Substances 限用物质	Results of EDXRF ⁽¹⁾ EDXRF 测试 结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试 结果 ⁽²⁾ (mg/kg)	No. of Related Test Report 相关报 告号码	Results in Related Test Report 相关测试 报告结果 (mg/kg)	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/ 再次提交日期
	Black epoxy (voltage	Cd	BL			\	Comply/符合	
	inductor) (T3) (PCB)	Pb	BL			\	Comply/符合	
71	(PZ96LAUI3X-2)	Hg	BL		\	\	Comply/符合	Nov.27, 2009
/ 1	PCB PZ96LAUI3X-2 电压互	Cr ⁶⁺	BL		\	/	Comply/符合	1404.27, 2009
	- ,	PBBs	BL			/	Comply/符合	
	感器 T3 上黑色环氧树脂	PBDEs	DL			\	Comply/符合	
	Copper-colored metal (loop)	Cd	BL			\	Comply/符合	
	(voltage inductor) (T3) (PCB)	Pb	BL			\	Comply/符合	
72	(PZ96LAUI3X-2)	Hg	BL		\	/	Comply/符合	Nov.27, 2009
, 2	PCB PZ96LAUI3X-2 电压互	Cr ⁶⁺	BL		\	\	Comply/符合	1404.27, 2000
	— -	PBBs				\	\	
	感器 T3 上铜色金属线圈	PBDEs				\	\	

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 14 of 24

Remark/备注

(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⁺. 结果显示的是总 Br 含量而限用物质是 PBBs/PBDEs; 结果显示的是总 Cr 含量而限用物质是 Cr⁶⁺。

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321:2008 (unit: mg/kg) EDXRF 所得的测试结果只作初步筛选,如果 XRF 结果超出 IEC62321:2008 所规定的警戒范围,我们建议客户用更精确的化学测试方法测试样品,如用 ICP 测试 Cd,Pb,Hg;用 UV-VIS 测试 Cr⁶⁺;用 GC/MS 测试 PBBs 和 PBDEs。(单位: mg/kg)

Element/ 元素	Polymer/聚合物	Metal/金属	Composite Materials/ 复合材料
Cd	BL ≤(70-3σ)< X <(130+3σ)≤ OL	BL ≤(70-3σ)< X <(130+3σ)≤ OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (c) BL = Below Limit/低于限度,OL = Over Limit/超出限度,IN = Inconclusive/不确定,LOD = Limit of Detection/检测极限值,-- = Not Regulated /未规定。
- (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.

 对于复合材料,XRF 筛选测试 RoHS 元素所得数据可能与样品中实际含量不同。
- (2) (a) mg/kg = ppm = 0.0001%/毫克每千克 = 百万分之一 = 0.0001%, ND = Not Detected (<MDL) /未检出(低于方 法检测极限值), --- = Not Conducted/未检测。
 - (b) Unit and Method Detection Limit (MDL) in wet chemical test/化学测试单位和方法检测极限值

Test Items/测试项目	Pb	Cd	Hg
Units/单位	mg/kg	mg/kg	mg/kg
MDL/方法检测极限值	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.

任何一种 PBBs(多溴联苯)和 PBDEs(多溴联苯醚)化合物的方法检测极限值是 5 mg/kg; 聚合物和复合材料样品中 Cr⁶⁺的方法检测极限值是 2 mg/kg。

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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 15 of 24

- (c) According to IEC62321:2008 , result on Cr^{6+} for metal sample is shown as Positive/Negative. Positive = Presence of Cr^{6+} coating, Negative = Absence of Cr^{6+} coating. 按照 IEC62321:2008 ,金属样品中 Cr^{6+} 的结果表示为阳性/阴性。 阳性 = 样品表层中检测到 Cr^{6+} , 阴性 = 样品表层中未检测到 Cr^{6+} 。
- (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 will be included in the sum of PBDE after 01.07.2008

根据欧洲法庭在 2008 年 4 月 1 日做出的决定,否决了 2005/717/EC 中关于聚合物样品中十溴联苯醚的豁免。 自 2008 年 7 月 1 日起,十溴联苯醚将被包含于多溴联苯醚的总和之中。

- (e) ▲ As declared by the client, the materials fall into exemption items according to EU directive 2002/95/EC (RoHS) and its subsequent amendments.
 - ▲ 根据客户的声明,该材料属于欧盟 2002/95/EC (RoHS)指令以及后续修正指令的豁免项目。

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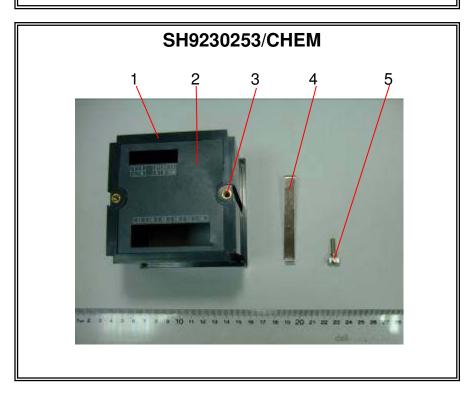
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 16 of 24

Photo Index/样品照片





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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 17 of 24





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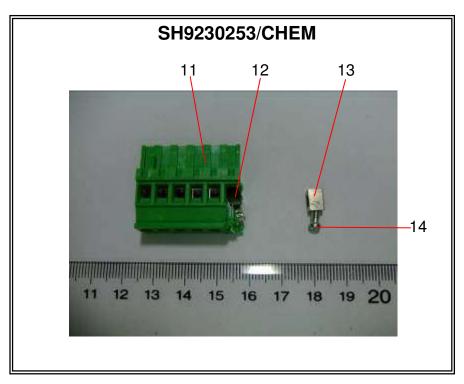
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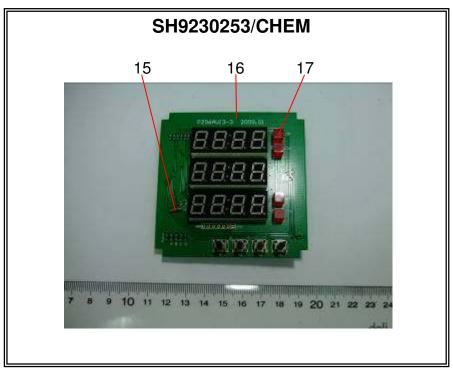
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 18 of 24





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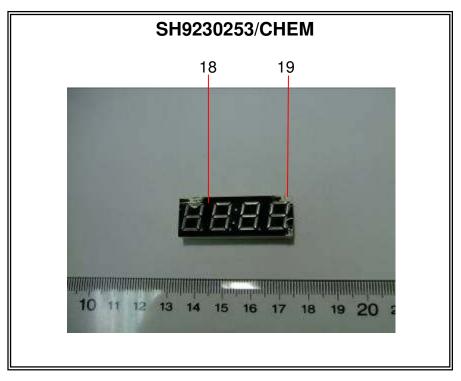
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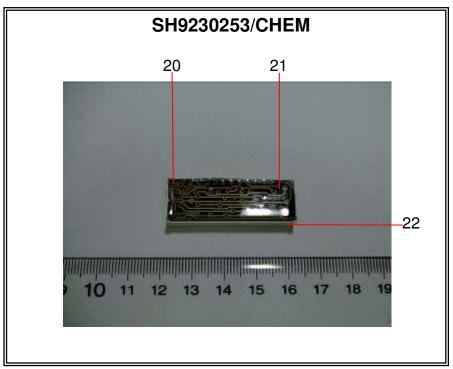
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 19 of 24





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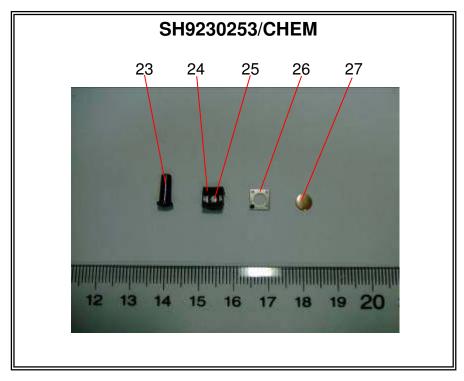
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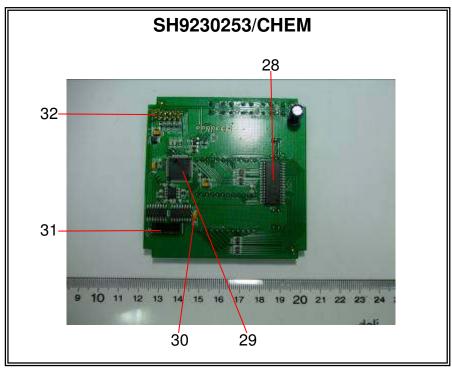
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 20 of 24





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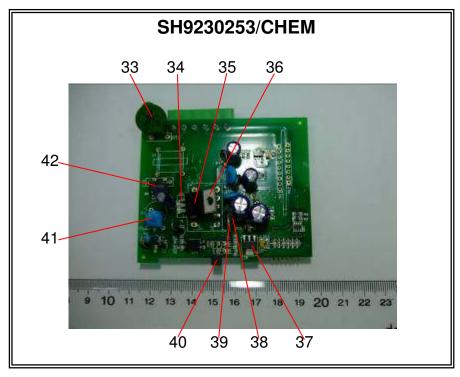
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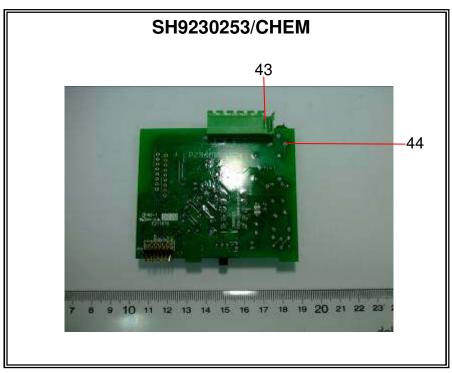
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 21 of 24





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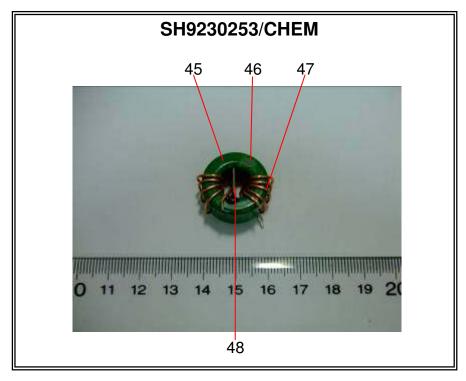
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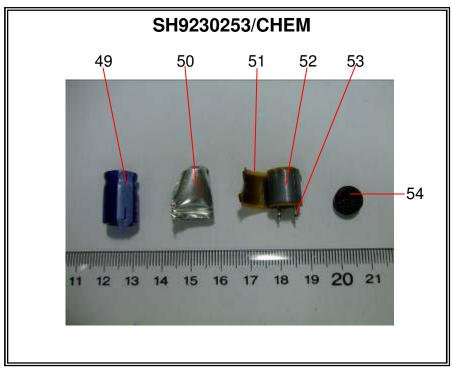
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 22 of 24





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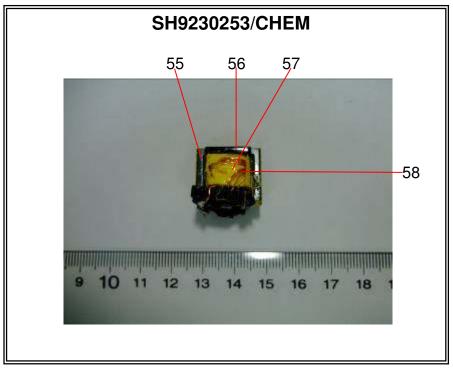
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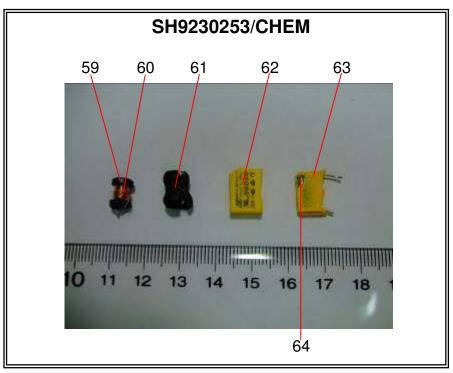
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 23 of 24





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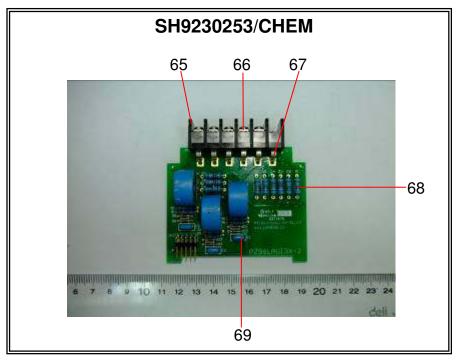
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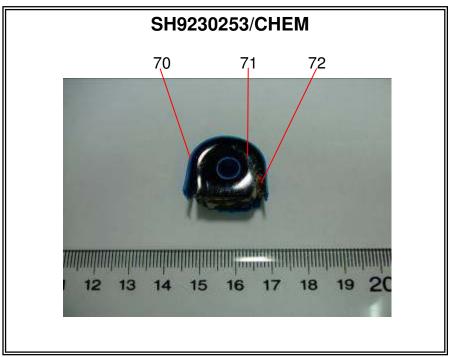
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No. SH9230253/CHEM Date: Dec. 28, 2009 Page 24 of 24





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