

No. SHAEC1320325301

Date: 15 Nov 2013

Page 1 of 30

Acrel Co.,Ltd.

No.253 Yulv Road, Jiading District, Shanghai, China

Sample Name: Intelligent Power Meter

SGS Job No.: SP13-030301 - SH

Tested Basic Model No.: PZ

Client Ref. Information: ACR

SGS Ref No.: SHES1310003913MI

Date of Sample Received: 17 Oct 2013

Verification Period: 17 Oct 2013 - 15 Nov 2013

Verification Requested: With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC.

Verification Method : Please refer to next page(s).

Verification Result : Please refer to next page(s).

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

samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs)

comply with the limits as set by RoHS Directive 2011/65/EU recasting

2002/95/EC.

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.

Signed for and on behalf of SGS-CSTC Ltd.

Terry Wang

Approved Signatory



No. SHAEC1320325301

Date: 15 Nov 2013

Page 2 of 30

Verification Method:

- 1. With reference to IEC 62321-2:2013 , review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013 , screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
- c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES
- d. With reference to IEC 62321:2008, determination of Hexavalent chromium by Spot test or Colorimetric method
- e. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS



No. SHAEC1320325301

Date: 15 Nov 2013

Page 3 of 30

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	PZ-Gray plastic (paster)		Pb	BL		Comply	17 Oct 2013
	(top cover)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
2	PZ-Silvery metal (screw)		Pb	BL		Comply	17 Oct 2013
	(top cover)		Cd	BL		Comply	17 000 2010
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
3	PZ-Silvery metal (screw)		Pb	BL		Comply	17 Oct 2013
	(fixed piece)		Cd	BL		Comply	551 = 515
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
4	PZ-Silvery metal (fixed		Pb	BL		Comply	17 Oct 2013
	piece)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



No. SHAEC1320325301

Date: 15 Nov 2013

Page 4 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	PZ-Silvery metal (pin)		Pb	BL		Comply	17 Oct 2013
	(LCD)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
6	PZ-White plastic (border		Pb	BL		Comply	17 Oct 2013
	paster) (apheliotropic		Cd	BL		Comply	17 000 2010
	board) (LCD)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
7	PZ-Beige adhesive		Pb	BL		Comply	17 Oct 2013
	(paster) (apheliotropic		Cd	BL		Comply	
	board) (LCD)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
8	PZ-Yellow plastic (paster		Pb	BL		Comply	17 Oct 2013
	paper) (paster) (apheliotropic board) (LCD)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



No. SHAEC1320325301

Date: 15 Nov 2013

Page 5 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
9	PZ-Silvery plastic (paster		Pb	BL		Comply	17 Oct 2013
	paper) (paster) (apheliotropic board) (LCD)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
10	PZ-White plastic (paster)		Pb	BL		Comply	17 Oct 2013
	(apheliotropic board)		Cd	BL		Comply	551.2516
	(LCD)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
11	PZ-Black plastic (chip)		Pb	BL		Comply	17 Oct 2013
	(chip electrolytic		Cd	BL		Comply	
	capacitor) (PCB)		Hg	BL		Comply	
	(ACR220-LCD-1)		Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
12	PZ-Black IC (body) (IC2)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-LCD-1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



No. SHAEC1320325301

Date: 15 Nov 2013

Page 6 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
13	PZ-Black plastic (socket)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-LCD-1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
14	PZ-Black IC (body) (U5)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-LCD-1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
15	PZ-Silvery metal (shell)		Pb	BL		Comply	17 Oct 2013
	(crystal resonator) (PCB)		Cd	BL		Comply	
	(ACR220-LCD-1)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
16	PZ-White paper (barcode)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-LCD-1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



No. SHAEC1320325301

Date: 15 Nov 2013

Page 7 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
17	PZ-Black IC (body) (IC3)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-LCD-1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
18	PZ-Black IC (body) (U4)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-LCD-1)		Cd	BL		Comply	17 000 2010
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
19	PZ-Black plastic (button)		Pb	BL		Comply	17 Oct 2013
	(touch switch) (PCB)		Cd	BL		Comply	17 000 2010
	(ACR220-LCD-1)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
20	PZ-Silvery metal (bracket)		Pb	BL		Comply	17 Oct 2013
	(touch switch) (PCB)		Cd	BL		Comply	
	(ACR220-LCD-1)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



No. SHAEC1320325301

Date: 15 Nov 2013

Page 8 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	PZ-Copper-colored metal (elastic piece) (touch switch) (PCB) (ACR220-LCD-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	 	Comply Comply Comply Comply	17 Oct 2013
22	PZ-Black plastic (shell) (touch switch) (PCB) (ACR220-LCD-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN	 ND ND	Comply Comply Comply Comply Comply Comply	17 Oct 2013 08 Nov 2013
23	PZ-Silvery metal (connecting sheet) (touch switch) (PCB) (ACR220-LCD-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	 	Comply Comply Comply Comply	17 Oct 2013
24 -S	PZ-Black plastic (sheath) (pin) (inductor) (CT1) (PCB) (ACR220-X-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	 	Comply Comply Comply Comply Comply Comply	17 Oct 2013 08 Nov 2013



No. SHAEC1320325301

Date: 15 Nov 2013

Page 9 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
25	PZ-Silvery metal (pin)		Pb	BL		Comply	17 Oct 2013
	(inductor) (CT1) (PCB)		Cd	BL		Comply	
	(ACR220-X-1)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
26	PZ-Golden metal (pin)		Pb	BL		Comply	17 Oct 2013
	(J6) (PCB) (ACR220-X-1)		Cd	BL		Comply	17 000 2010
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
27	PZ-Black plastic (bracket)		Pb	BL		Comply	17 Oct 2013
	(pin) (J6) (PCB)		Cd	BL		Comply	08 Nov 2013
	(ACR220-X-1)		Hg	BL		Comply	001107 2010
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
28	PZ-Silvery metal (pin)		Pb	BL		Comply	17 Oct 2013
	(PCB) (ACR220-X-1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



No. SHAEC1320325301

Date: 15 Nov 2013

Page 10 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
29	PZ-Green PCB (PCB) (ACR220-X-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN	 ND ND	Comply Comply Comply Comply Comply Comply	17 Oct 2013
30	PZ-Silvery metal (piece) (inductor) (CT1) (PCB) (ACR220-X-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	 	Comply Comply Comply Comply	17 Oct 2013
31	PZ-Black epoxy (inductor) (CT1) (PCB) (ACR220-X-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	 	Comply Comply Comply Comply Comply Comply	17 Oct 2013
32	PZ-White plastic (bracket) (inductor) (CT1) (PCB) (ACR220-X-1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN IN	 ND ND	Comply Comply Comply Comply Comply Comply	17 Oct 2013 08 Nov 2013



No. SHAEC1320325301

Date: 15 Nov 2013

Page 11 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
33	PZ-Blue plastic (shell)		Pb	BL		Comply	17 Oct 2013
	(inductor) (CT1) (PCB)		Cd	BL		Comply	08 Nov 2013
	(ACR220-X-1)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
34	PZ-Silver-blue metal		Pb	BL		Comply	17 Oct 2013
	(screw) (connecting		Cd	BL		Comply	
	block)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
35	PZ-Silvery metal (wire		Pb	BL		Comply	17 Oct 2013
	harness block)		Cd	BL		Comply	
	(connecting block)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
36	PZ-Green plastic		Pb	BL		Comply	17 Oct 2013
	(connecting block)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



No. SHAEC1320325301

Date: 15 Nov 2013

Page 12 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
37	PZ-Black chip diode		Pb	BL		Comply	17 Oct 2013
	(body) (VD8) (PCB)		Cd	BL		Comply	
	(E211670)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
38	PZ-Black ferrite (bracket)		Pb	BL		Comply	17 Oct 2013
	(inductor) (R5) (PCB)		Cd	BL		Comply	17 000 2010
	(E211670)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
39	PZ-Black IC (body) (IC6)		Pb	BL		Comply	17 Oct 2013
	(PCB) (E211670)		Cd	BL		Comply	08 Nov 2013
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
40	PZ-Brown plastic (shell)		Pb	BL		Comply	17 Oct 2013
	(electrolytic capacitor)		Cd	BL		Comply	
	(C1) (PCB) (E211670)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



No. SHAEC1320325301

Date: 15 Nov 2013

Page 13 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41	PZ-Silvery metal (bracket) (relay) (PCB) (E211670)		Pb Cd Hg Cr(VI) PBBs	BL BL BL BL	 	Comply Comply Comply Comply	17 Oct 2013
42	PZ-Black plastic (bracket) (relay) (PCB) (E211670)		PBDEs Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	 	Comply Comply Comply Comply Comply Comply	17 Oct 2013
43	PZ-Copper-colored metal (connecting sheet) (relay) (PCB) (E211670)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	 	Comply Comply Comply Comply	17 Oct 2013
44	PZ-Beige plastic (bracket) (relay) (PCB) (E211670)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN	 ND ND	Comply Comply Comply Comply Comply Comply	17 Oct 2013 08 Nov 2013



No. SHAEC1320325301

Date: 15 Nov 2013

Page 14 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
45	PZ-Black plastic (bracket) (magnetic ring inductor) (PCB) (E211670)		Pb Cd Hg Cr(VI)	BL BL BL BL	 	Comply Comply Comply Comply	17 Oct 2013
			PBBs PBDEs	BL BL		Comply Comply	
46	PZ-Yellow epoxy (bracket) (capacitor) (PCB) (E211670)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN	 ND ND	Comply Comply Comply Comply Comply Comply	17 Oct 2013 08 Nov 2013
47	PZ-Yellow plastic (shell) (capacitor) (PCB) (E211670)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN	 ND ND	Comply Comply Comply Comply Comply Comply	17 Oct 2013 08 Nov 2013
48	PZ-Silvery metal (pin) (capacitor) (PCB) (E211670)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	 	Comply Comply Comply Comply	17 Oct 2013



No. SHAEC1320325301

Date: 15 Nov 2013

Page 15 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
49	PZ-Yellow plastic		Pb	BL		Comply	17 Oct 2013
	(adhesive tape)		Cd	BL		Comply	
	(transformer) (PCB)		Hg	BL		Comply	
	(E211670)		Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
50	PZ-Copper-colored metal		Pb	BL		Comply	17 Oct 2013
	(loop) (transformer) (PCB)		Cd	BL		Comply	17 000 2010
	(E211670)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
51	PZ-Black plastic (bracket)		Pb	BL		Comply	17 Oct 2013
	(transformer) (PCB)		Cd	BL		Comply	
	(E211670)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
(1	PZ-Black ferrite (bracket) (transformer) (PCB) (E211670)		Pb	BL		Comply	17 Oct 2013
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



No. SHAEC1320325301

Date: 15 Nov 2013

Page 16 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
53	PZ-Greenblack capacitor		Pb	BL		Comply	17 Oct 2013
	(body) (PCB) (E211670)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	IN	ND	Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
54	PZ-Blue capacitor (body)		Pb	BL		Comply	17 Oct 2013
	(PCB) (E211670)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
55	PZ-Green PCB (body)		Pb	BL		Comply	17 Oct 2013
	(E211670)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
56	PZ-Silvery metal		Pb	BL		Comply	17 Oct 2013
	(soldering tin) (PCB)		Cd	BL		Comply	
	(E211670)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				



No. SHAEC1320325301

Date: 15 Nov 2013

Page 17 of 30

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
57	PZ-Golden metal (whorl		Pb	OL	22449▲	Comply	17 Oct 2013
	rod) (shell)		Cd	BL		Comply	17 000 2010
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
58	PZ-Gray plastic (paster)		Pb	BL		Comply	17 Oct 2013
	(shell)		Cd	BL		Comply	00.2010
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
59	PZ-Black plastic (shell)		Pb	BL		Comply	17 Oct 2013
			Cd	BL		Comply	17 000 2010
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	



No. SHAEC1320325301

Date: 15 Nov 2013

Page 18 of 30

Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
 - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials	
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 \leq (700-3 σ)< X <(1300+3 σ) \leq 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, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (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 = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, = Without BOM.
 - (b) Unit and MDL in wet chemical test

Test Item Pb		Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs and PBDEs is 5 mg/kg, MDL of Cr(VI) for polymer and composite sample is 2 mg/kg.

(c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms_and_conditions. In and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability in fearing flower in additional property in the formation contained hereon reflects the Company's findings at the time of its presention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction for property recipied and the property of the company. This document cannot be reproduced except in full, without prior written approval of the Company. This document cannot be reproduced except in full, without prior written approval of the Company. This document is unlawful and offenders may be prosecuted to the fullest extent of the law.

In this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

hai Co.Lid 3¹¹Building,No.889 Yishan Road Xuhui District,Shanghai China 200233 中国・上海・徐汇区宜山路889号3号楼 邮編: 200233

t E&E (86-21) 61402553 f E&E (86-21)64953679 HL: (86-21) 61402594 HL: (86-21)54500353



No. SHAEC1320325301

Date: 15 Nov 2013

Page 19 of 30

(d)▲=According to the declaration from the client, Lead (Pb) in No.57 is exempted by EU RoHS Directive 2011/65/EU based on: Copper alloy containing up to 4 % lead by weight.

(3) According to the declaration from applicant, the materials of Model "PZ" are the same as those in Model "ACR" and its results for support the results of Model "ACR". The applicant will take the responsibility of all discrepancy and risk.



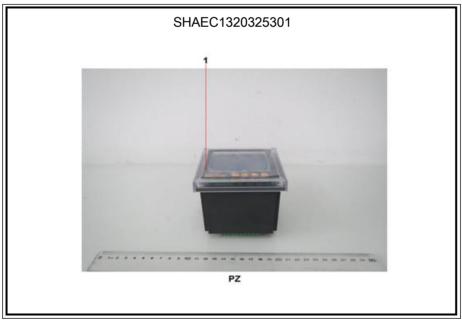
No. SHAEC1320325301

Date: 15 Nov 2013

Page 20 of 30

Sample photo:



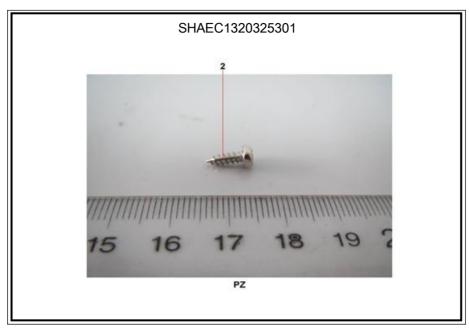


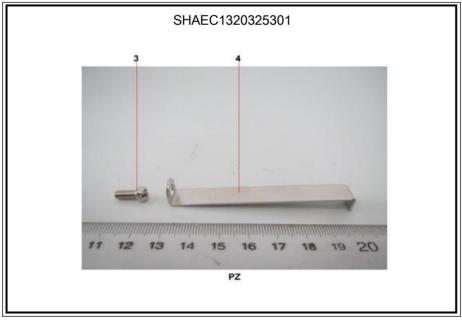


No. SHAEC1320325301

Date: 15 Nov 2013

Page 21 of 30



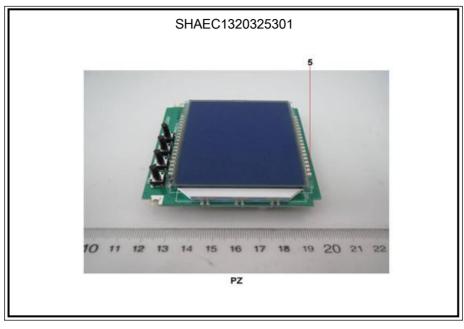


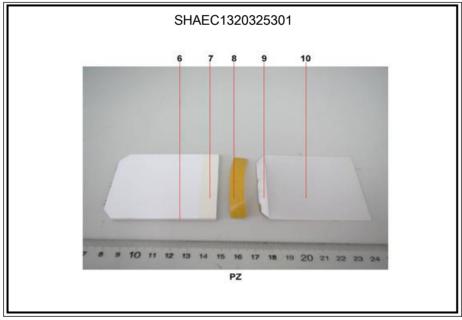


No. SHAEC1320325301

Date: 15 Nov 2013

Page 22 of 30





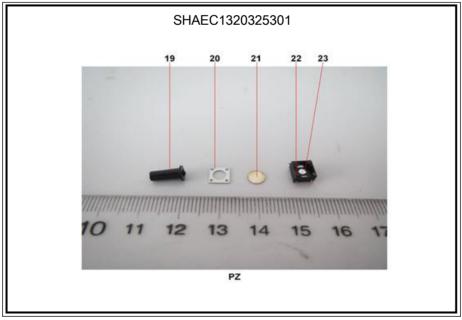


No. SHAEC1320325301

Date: 15 Nov 2013

Page 23 of 30



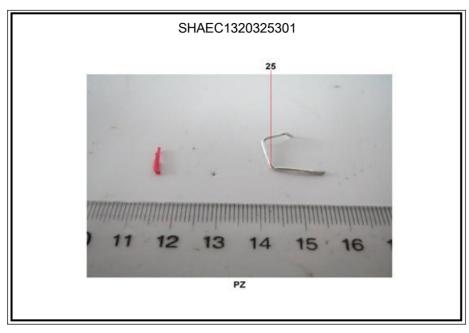


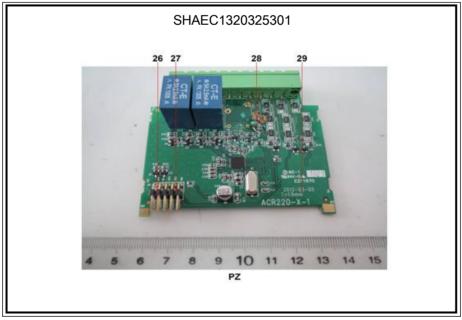


No. SHAEC1320325301

Date: 15 Nov 2013

Page 24 of 30



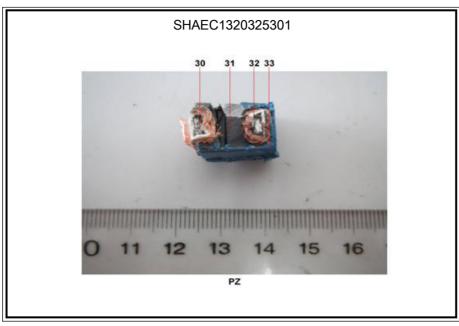


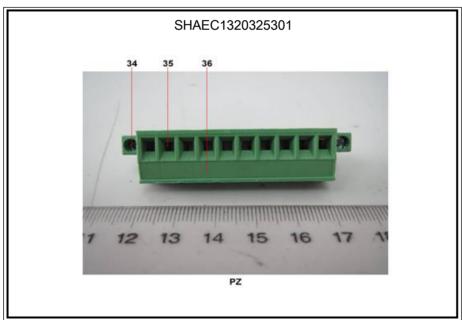


No. SHAEC1320325301

Date: 15 Nov 2013

Page 25 of 30



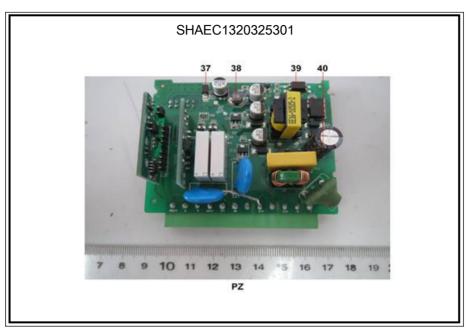


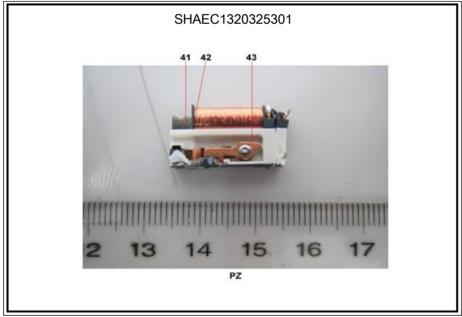


No. SHAEC1320325301

Date: 15 Nov 2013

Page 26 of 30



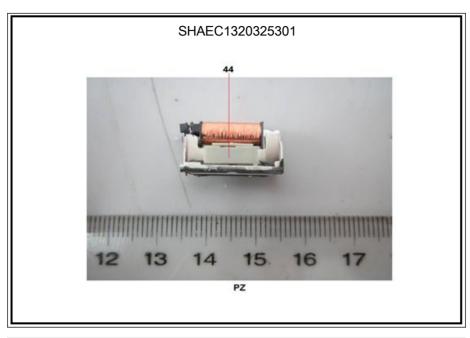




No. SHAEC1320325301

Date: 15 Nov 2013

Page 27 of 30



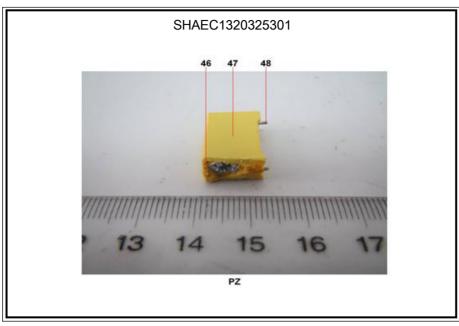


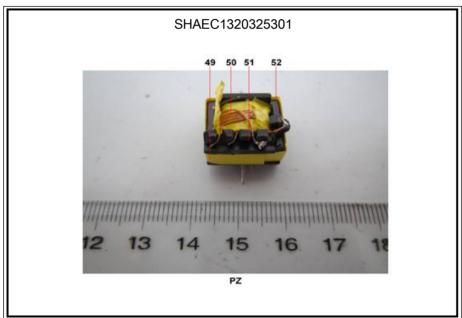


No. SHAEC1320325301

Date: 15 Nov 2013

Page 28 of 30



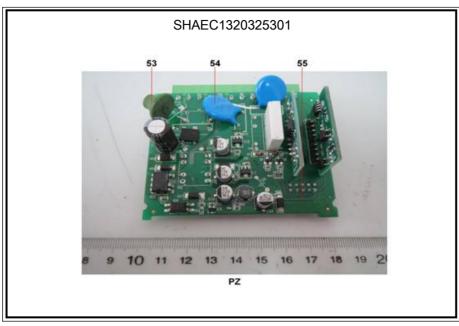


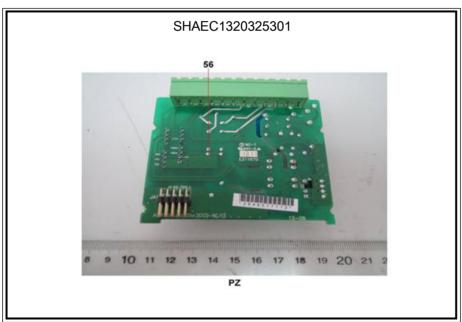


No. SHAEC1320325301

Date: 15 Nov 2013

Page 29 of 30



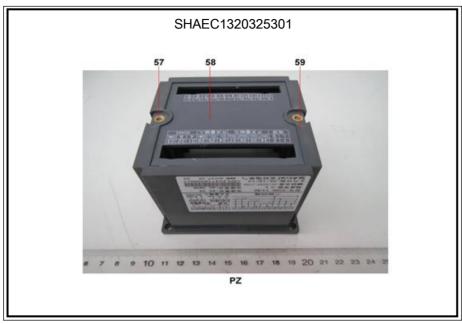




No. SHAEC1320325301

Date: 15 Nov 2013

Page 30 of 30





SGS authenticate the photo on original report only

*** End of Report ***