

SUNON INTERNATIONAL GROUP LIMITED  
UNIT 2305, 23/F, LAWS COMMERCIAL PLAZA  
788 CHEUNG SHA WAN ROAD  
KOWLOON HONG KONG

Sample Name : WATCH MOVEMENT  
SGS Job No. : 2497529 - HK  
Colour : GREY & BLACK  
Item No Given by Client : SL68R, PE11, PE10, PE45  
Buyer : WORLDWIDE  
Manufacturer : WUHAN SUNON ELECTRONIC CO., LTD.  
Country of Origin : CHINA  
Country of Destination : WORLDWIDE  
Date of Sample Received : 15 Jan 2014  
2nd Submission : 25 Feb 2014  
3rd Submission : 11 Apr 2014  
Verification Period : 15 Jan 2014 - 10 Jun 2014  
Verification Requested : Selected test(s) as requested by client.  
Verification Method :  
1. Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant  
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC62321-3-1: 2013 Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products  
(1) Screening by XRF 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 / Colorimetric Method using UV-Vis.  
e. With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.  
Verification Result : Please refer to next page(s).  
Verification Conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU recasting 2002/95/EC

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## Verification Report

No. HKGEC1400053101

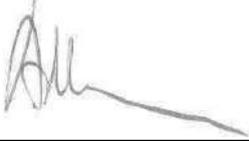
Date: 10 Jun 2014

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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 Hong Kong Limited.



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Lam Ka Yung, Allen  
Chemist

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Case – Black Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	15 Jan 2014
2	Disc – White Soft Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	15 Jan 2014
3	Crown Pin – Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL --- ---	1791 --- --- --- --- ---	Comply Comply Comply Comply --- ---	15 Jan 2014
4	Crown – White Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	15 Jan 2014

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
5	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
6	Screw – Silvery Metal ▲		Pb	OL	1360	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
7	Gear Shaft – Golden Metal w/ Silvery Plating ▲		Pb	IN	23365	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
8	Gear Shaft – Golden Metal w/ Silvery Plating ▲		Pb	OL	23365	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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9	Gear Shaft – Silvery Metal ▲		Pb	OL	1515	Comply	15 Jan 2014 25 Feb 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
10	Gear Shaft – Silvery Metal ▲		Pb	OL	1515	Comply	15 Jan 2014 25 Feb 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
11	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
12	Gear – White Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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13	Magnet – Black Magnet w/ White Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
14	Gear Cover – Transparent Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
15	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
16	Film – Transparent Soft Plastic w/ Adhesive Backing		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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17	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
18	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
19	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Copper Metal w/ Silvery Plating w/ Silvery Metal §		Pb	OL	34948	See Remark	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
20	PCB Holder – Golden Metal ▲		Pb	OL	11260	Comply	15 Jan 2014
			Cd	OL	ND	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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21	Epoxy – Black Epoxy w/ Chips		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
22	Oscillator – Silvery Metal w/ Chips		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
23	Coil Holder – Silvery Metal w/ Yellow Coating		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
24	Coil – Coppery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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25	Case – Grey Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	15 Jan 2014
26	Crown Pin – Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL --- ---	1853 --- --- --- --- ---	Comply Comply Comply Comply --- ---	15 Jan 2014
27	Crown – White Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	15 Jan 2014
28	Metal Plate – Silvery Metal		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply --- ---	15 Jan 2014

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29	Metal Plate – Silvery Metal		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply --- ---	15 Jan 2014
30	Gear Shaft – Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL --- ---	1515 --- --- --- --- ---	Comply Comply Comply Comply --- ---	15 Jan 2014 25 Feb 2014
31	Gear Shaft – Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL --- ---	1515 --- --- --- --- ---	Comply Comply Comply Comply --- ---	15 Jan 2014 25 Feb 2014
32	Gear – Yellow Plastic		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	15 Jan 2014

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33	Gear – Blue Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
34	Gear – White Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
35	Magnet – Black Magnet w/ White Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
36	Gear Cover – Transparent Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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37	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
38	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
39	Coil Holder – Silvery Metal w/ Yellow Coating		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
40	Coil – Coppery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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41	Epoxy – Black Epoxy w/ Chips		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
42	Oscillator – Silvery Metal w/ Chips		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
43	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Plating w/ Silvery Metal §		Pb	OL	60001	See Remark	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
44	PCB Holder – Golden Metal ▲		Pb	OL	15674	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	04 Mar 2014
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
45	Contact Plate – Silvery Metal		Pb	OL	16	Comply	15 Jan 2014 25 Feb 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
46	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
47	Gear Shaft – Golden Metal w/ Silvery Plating ▲		Pb	OL	23365	Comply	15 Jan 2014 25 Feb 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
48	Gear Shaft – Silvery Metal ▲		Pb	OL	1515	Comply	15 Jan 2014 25 Feb 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
49	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
50	Gear – White Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
51	Magnet – Black Magnet w/ White Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
52	Gear Cover – Transparent Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
53	Metal Plate – Golden Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
54	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
55	Case – Black Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
56	Oscillator – Silvery Metal w/ Chips		Pb	OL	79	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
57	Epoxy – Black Epoxy w/ Chips		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
58	PCB – Glass Fiber w/ Green and Black Coating w/ Golden Metal w/ Silvery Plating		Pb	OL	ND	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
59	PCB Holder – Golden Metal ▲		Pb	OL	24233	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
60	Case – Grey Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
61	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
62	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
63	Gear Shaft – Golden Metal w/ Silvery Plating ▲		Pb	OL	23365	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
64	Gear Shaft – Silvery Metal ▲		Pb	OL	1515	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
65	Gear – Pink Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
66	Gear – Black Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
67	Magnet – Black Magnet w/ Pink Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
68	Gear Cover – Transparent Plastic		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
69	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
70	Metal Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
71	Contact Plate – Silvery Metal		Pb	BL	---	Comply	15 Jan 2014
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
72	PCB – Glass Fiber w/ Green and Black Coating w/ Golden Metal §		Pb	---	ND	Comply	15 Jan 2014
			Cd	---	ND	Comply	
			Hg	---	ND	Comply	
			Cr(VI)	---	ND	Comply	
			PBBs	---	ND	Comply	
			PBDEs	---	ND	Comply	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXR F(1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
73	Solder – Silvery Metal		Pb	---	76	Comply	15 Jan 2014
			Cd	---	ND	Comply	11 Apr 2014
			Hg	---	ND	Comply	
			Cr(VI)	---	Negative	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 Cr<sup>6+</sup>.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr<sup>6+</sup>) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321(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 ≤(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, 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 = ppm = 0.0001%, ND = Not Detected (<MDL), --- = Not Conducted, - = Without Bom.

(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 Cr<sup>6+</sup> for polymer & composite sample is 2 mg/kg.

\* Due to the few amount of sample, MDL of Cr<sup>6+</sup> in Polymer and Composite Materials is 10 mg/kg.

(c) According to IEC 62321, result on Cr<sup>6+</sup> for metal sample is shown as Positive/Negative.  
Negative = Absence of Cr<sup>6+</sup> coating, Positive = Presence of Cr<sup>6+</sup> coating.

(d) ▲ As declared by the client, the materials fall into exemption items according to RoHS Directive 2011/65/EU recasting 2002/95/EC

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Exemption item ▲		Exemption material
3	Crown Pin – Silvery Metal	Steel Alloy
6	Screw – Silvery Metal	Steel Alloy
7	Gear Shaft – Golden Metal w/ Silvery Plating	Copper Alloy
8	Gear Shaft – Golden Metal w/ Silvery Plating	Copper Alloy
9	Gear Shaft – Silvery Metal	Steel Alloy
10	Gear Shaft – Silvery Metal	Steel Alloy
20	PCB Holder – Golden Metal	Copper Alloy
26	Crown Pin – Silvery Metal	Steel Alloy
30	Gear Shaft – Silvery Metal	Steel Alloy
31	Gear Shaft – Silvery Metal	Steel Alloy
44	PCB Holder – Golden Metal	Copper Alloy
47	Gear Shaft – Golden Metal w/ Silvery Plating	Copper Alloy
48	Gear Shaft – Silvery Metal	Steel Alloy
59	PCB Holder – Golden Metal	Copper Alloy
63	Gear Shaft – Golden Metal w/ Silvery Plating	Copper Alloy
64	Gear Shaft – Silvery Metal	Steel Alloy

- (3) As declared by the client, the replaced item(s) was/were replaced by the new submitted item(s) which is summarized in below table.

Replaced item §		New item §	
19	PCB w/ Solder – Glass Fiber w/ Green and Black Coating w/ Copper Metal w/ Silvery Plating w/ Silvery Metal	71	PCB – Glass Fiber w/ Green and Black Coating w/ Golden Metal
43	PCB w/ Solder – Glass Fiber w/ Black Coating w/ Golden Metal w/ Silvery Plating w/ Silvery Metal	72	Solder – Silvery Metal

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According to the declaration from client, the source of Lead in “Crown Pin” of Item 3, “Screw” of Item 6, “Gear Shaft” of Item 7, “Gear Shaft” of Item 8, “Gear Shaft” of Item 9, “Gear Shaft” of Item 10, “PCB Holder” of Item 20, “Crown Pin” of Item 26, “Gear Shaft” of Item 30, “Gear Shaft” of Item 31, “PCB Holder” of Item 44, “Gear Shaft” of Item 47, “Gear Shaft” of Item 48, “PCB Holder” of Item 59, “Gear Shaft” of Item 63 and “Gear Shaft” of Item 64 could be from the copper alloy/steel alloy base, while Lead as an alloying element in copper alloy/steel alloy containing up to 4%/0.35% Lead by weight is exempted by RoHS regulatory (Directive 2011/65/EU recasting 2002/95/EC).

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Sample photo:



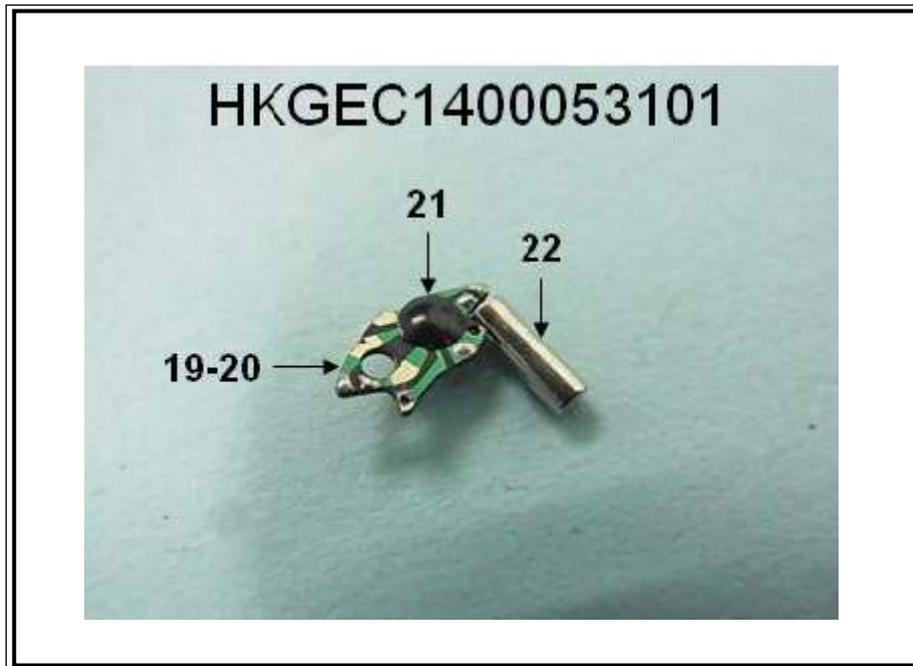
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