

## Verification Report

No. HKGEC1300012001

Date: 26 Mar 2013


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01 POWER LIMITED

RM 517 , 5/F KWONG LOONG TAI BLDG  
1016-1018 TAI NAN WEST ST  
LAI CHI KOK  
HONG KONG

Sample Name : USB TRAY HUB  
SGS Job No. : 2051305 - HK  
Date of Sample Received : 04 Jan 2013  
Verification Period : 04 Jan 2013 - 26 Mar 2013  
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 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 Lead & Cadmium by ICP or AAS  
b. Determination of Mercury by ICP  
c. Determination of Hexavalent Chromium by Spot test or Colorimetric Method  
d. 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  
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.



Lam Ka Yung, Allen  
Chemist

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Case – White Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
2	Foot Pad – Black Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
3	Screw on Case – Silvery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
4	Screw on PCB – Silvery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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5	PCB – Brown Plastic w/ Green Coating w/ Coppery Metal w/ White Printing		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
6	Glue – Transparent Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
7	Socket Case – Silvery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
8	Pin Holder – White Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	209	Comply	

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9	Socket Pin – Golden Metal w/ Silvery Plating		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
10	Wire Insulator – Green Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
11	Wire Insulator – White Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
12	Wire Insulator – Black Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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13	Wire Insulator – Red Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
14	Wire – Coppery Metal §		Pb	OL	2104	See Remark	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
15	PCB – Glass Fiber w/ Green Coating w/ Coppery Metal w/ White Printing		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
16	Solder – Silvery Metal §		Pb	OL	45001	See Remark	04 Jan 2013
			Cd	OL	3050	See Remark	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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17	IC – Black Plastic w/ Brown Printing w/ Coppery Metal w/ Silvery Plating w/ Chips ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL BL BL BL BL BL	32983 --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	04 Jan 2013
18	SMD Capacitor – Brown Ceramic w/ Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL IN BL BL BL BL	15704 ND --- --- --- ---	Comply Comply Comply Comply Comply Comply	04 Jan 2013
19	SMD Resistor – White Ceramic w/ Black Coating w/ White Printing w/ Silvery Metal ▲		Pb Cd Hg Cr(VI) PBBs PBDEs	OL IN BL BL BL BL	5166 ND --- --- --- ---	Comply Comply Comply Comply Comply Comply	04 Jan 2013
20	Oscillator – Silvery Metal w/ Transparent Glass w/ Chips		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	04 Jan 2013

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21	Oscillator Pin – Coppery Metal w/ Silvery Plating		Pb	OL	291	Comply	04 Jan 2013
			Cd	OL	ND	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
22	Socket Case – Silvery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
23	Pin Holder – Black Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
24	Socket Pin – Golden Metal w/ Silvery Plating		Pb	OL	79	Comply	04 Jan 2013
			Cd	IN	ND	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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25	USB Plug Insulator – Black Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
26	USB Plug Case – Silvery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
27	USB Pin Holder – White Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
28	Glue – Black Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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29	USB Pin – Golden Metal w/ Silvery Plating		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
30	Plug Insulator – Black Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
31	Plug Case – Silvery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
32	Pin Holder – White Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	

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33	Pin – Golden Metal w/ Silvery Plating		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
34	Wire Insulator – White Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
35	Sewing Thread – White Fabric		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
36	Wire Insulator – Orange Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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37	Wire Insulator – Blue Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
38	Wire Insulator – Green Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
39	Wire – Coppery Metal		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
40	Wire Jacket – Black Soft Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	

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Date: 26 Mar 2013

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
41	Case – Black Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
42	Glue – Translucent Plastic		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
43	Ferrite – Black Ferrite		Pb	BL	---	Comply	04 Jan 2013
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	ND	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
44	Wire - Copper Metal w/ Silvery Plating §		Pb	---	39	Comply	04 Jan 2013
			Cd	---	ND	Comply	
			Hg	---	ND	Comply	
			Cr(VI)	---	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
45	Solder - Silvery Metal §		Pb	---	301	Comply	04 Jan 2013
			Cd	---	ND	Comply	
			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	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(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
17	IC – Black Plastic w/ Brown Printing w/ Coppery Metal w/ Silvery Plating w/ Chips	Glass in Electronic Component
18	SMD Capacitor – Brown Ceramic w/ Silvery Metal	Ceramic in Electronic Component
19	SMD Resistor – White Ceramic w/ Black Coating w/ White Printing w/ Silvery Metal	Ceramic in Electronic Component

- (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 §	
14	Wire – Coppery Metal	44	Wire - Coppery Metal w/ Silvery Plating
16	Solder – Silvery Metal	45	Solder - Silvery Metal

According to the declaration from client, the source of Lead in “ IC” of Item 17, “SMD Capacitor” of Item 18 and “SMD Resistor” of Item 19 could be from the glass/ceramic material of that electronic component which is exempted by RoHS regulatory (Directive 2011/65/EU recasting 2002/95/EC ).

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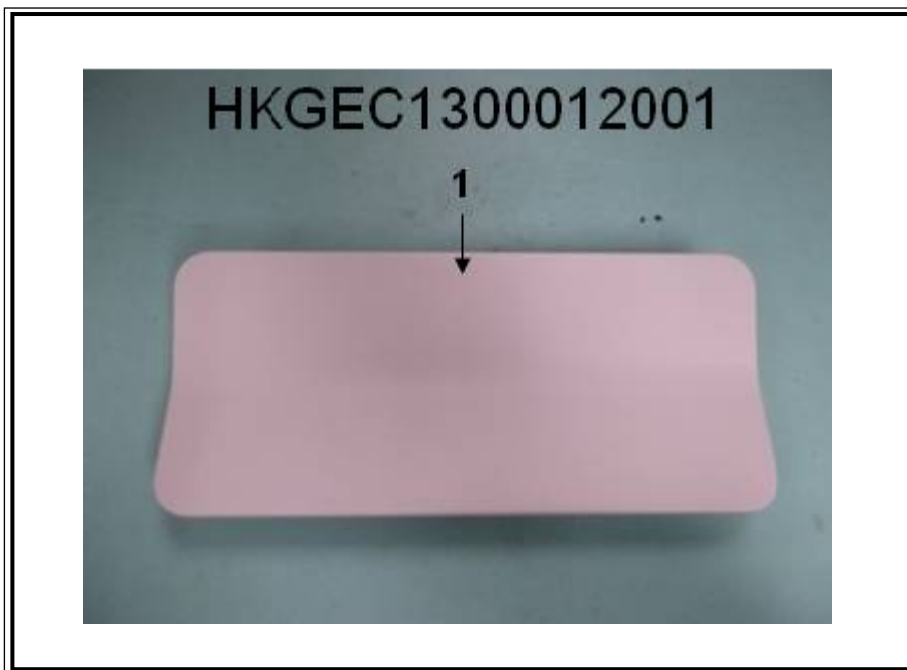
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Sample photo:



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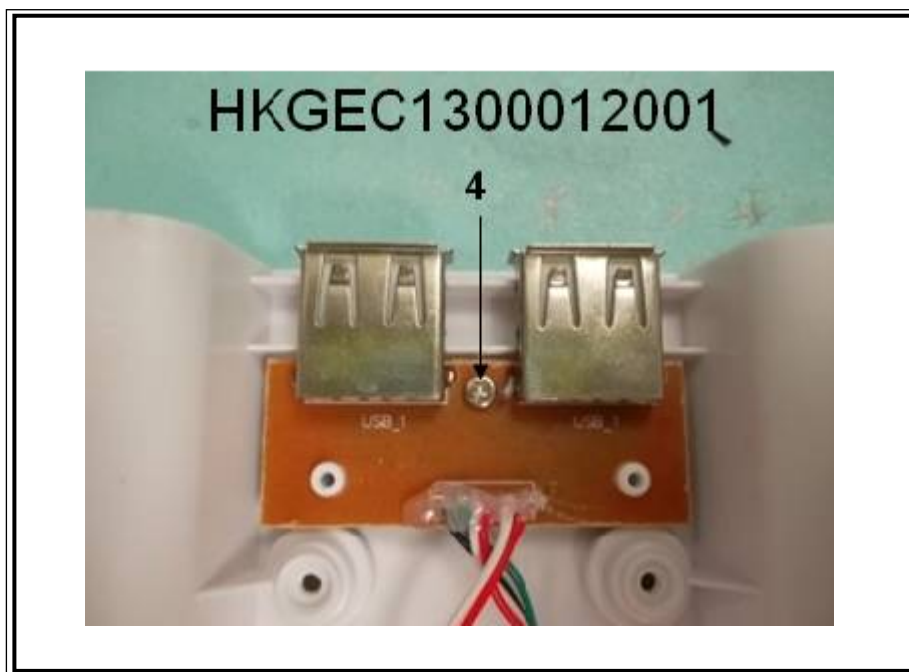
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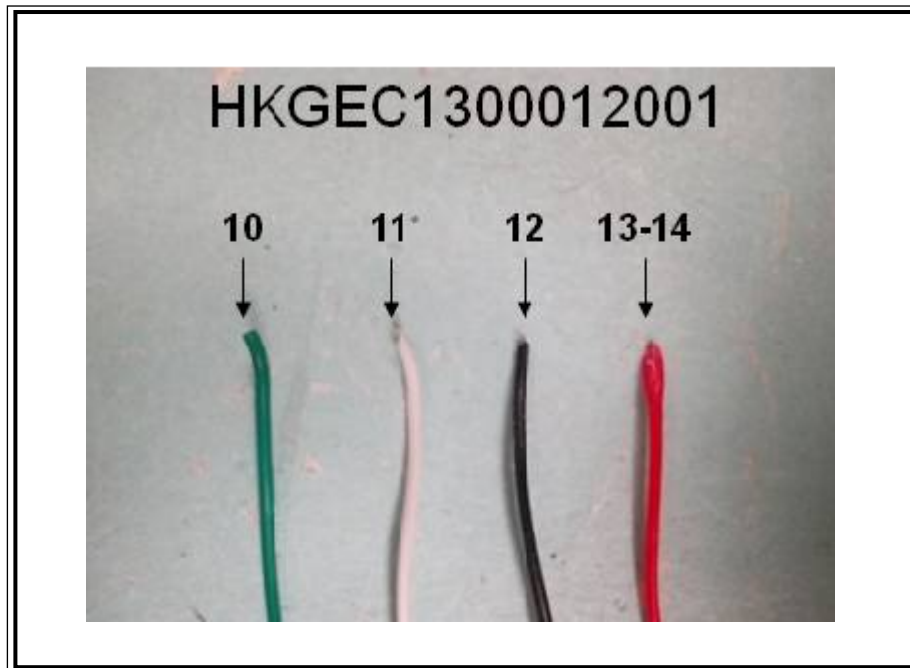
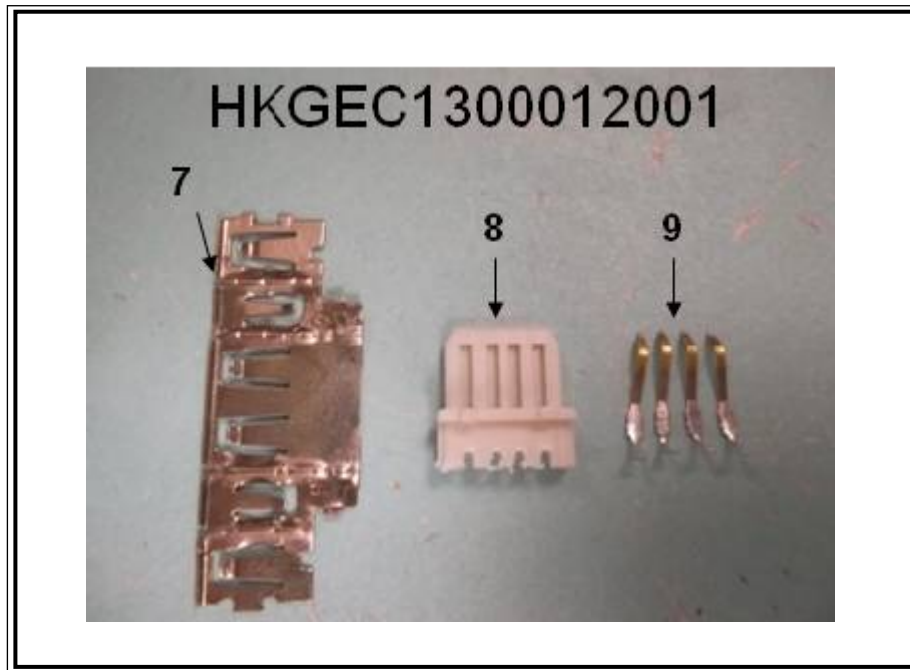
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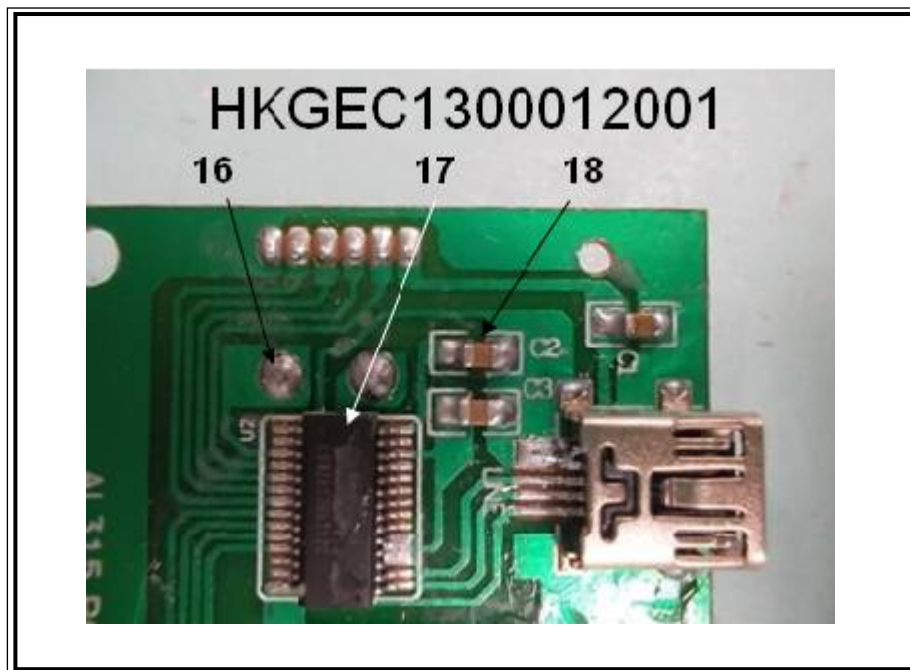
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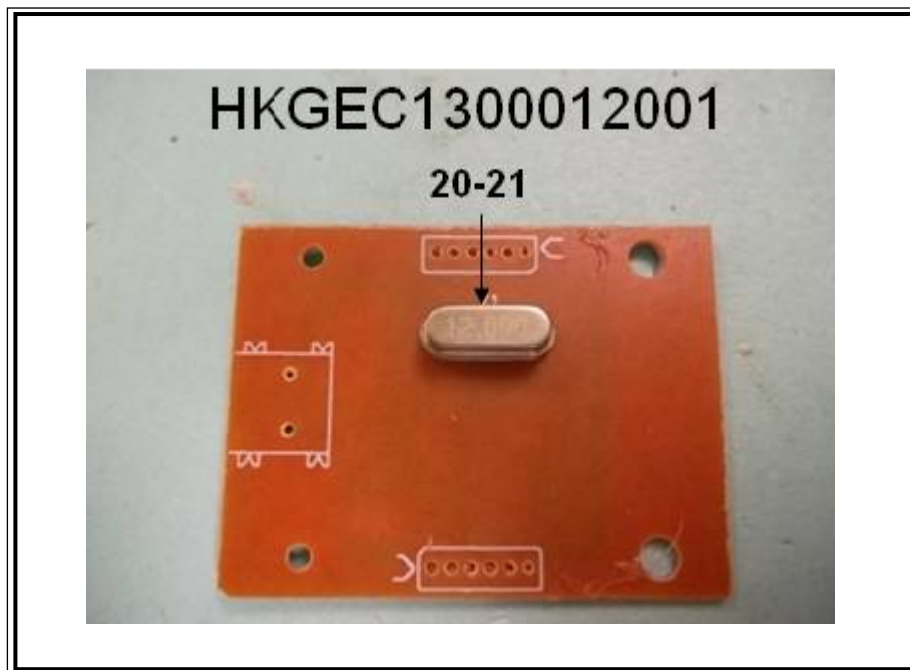
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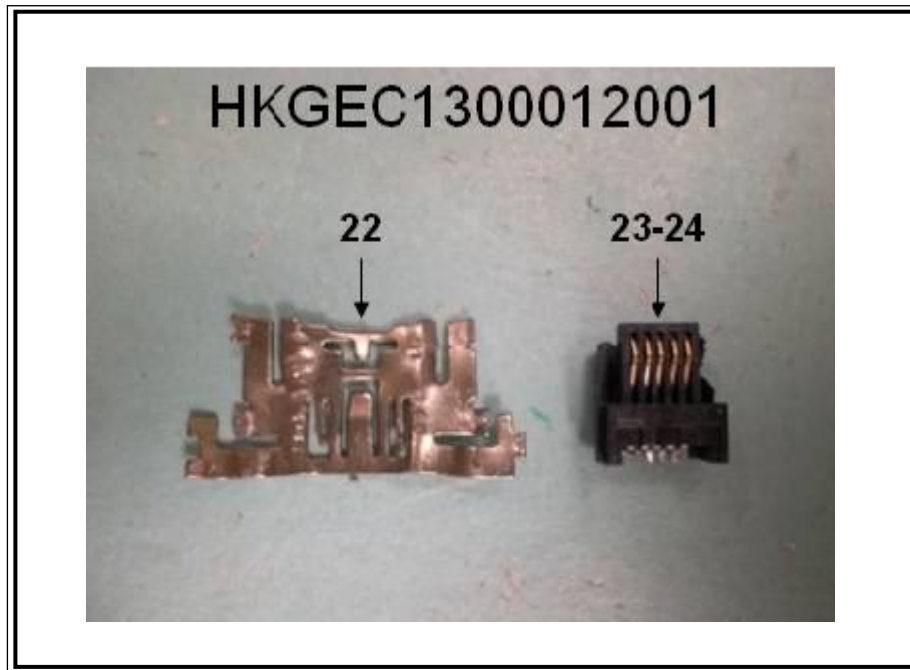
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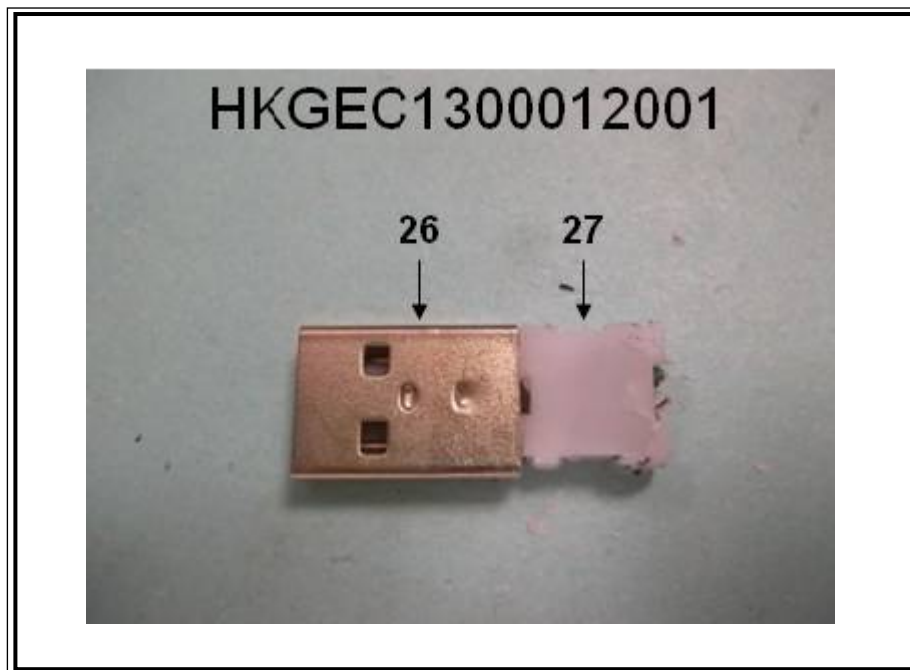
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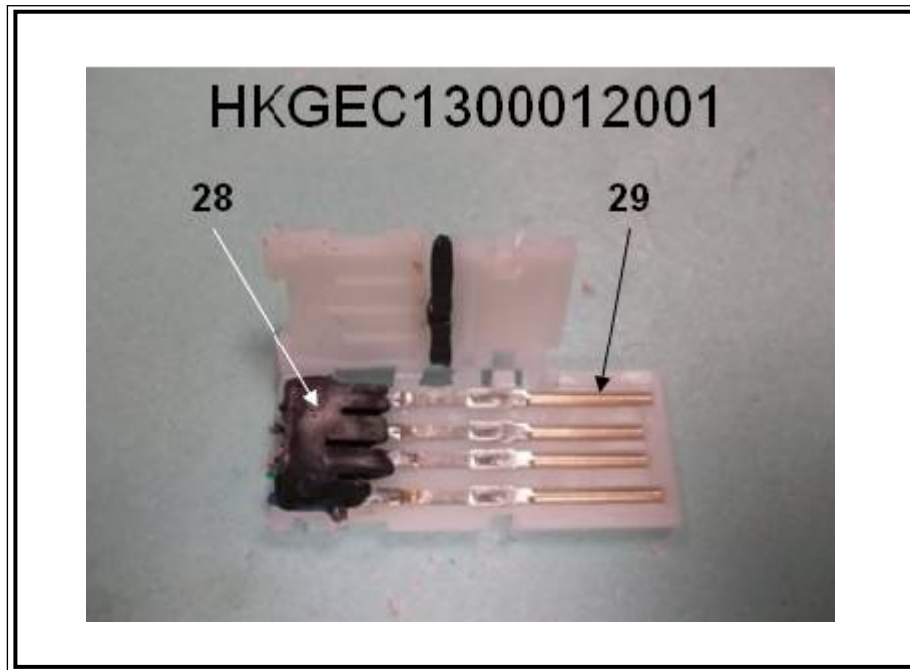
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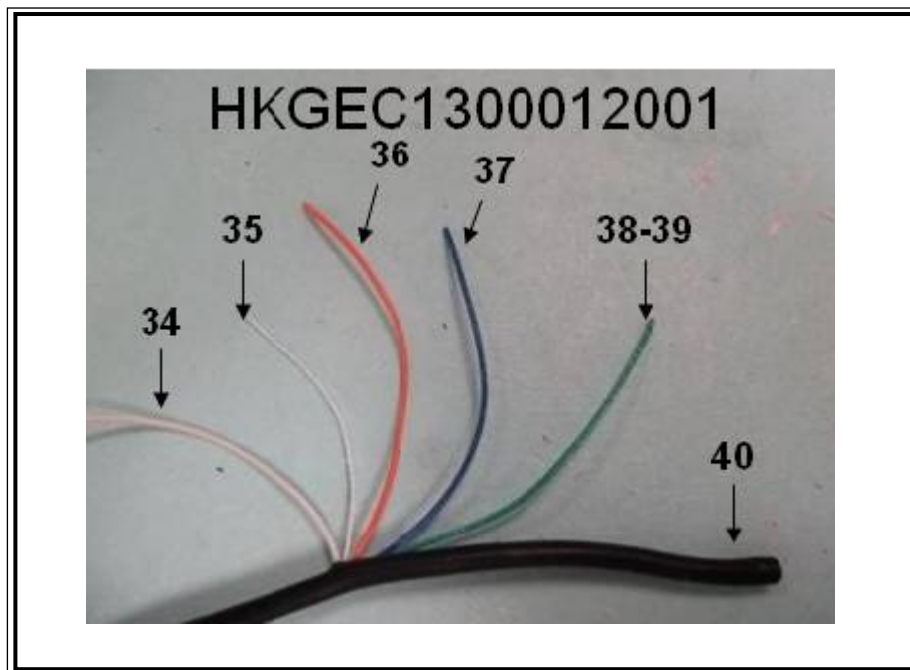
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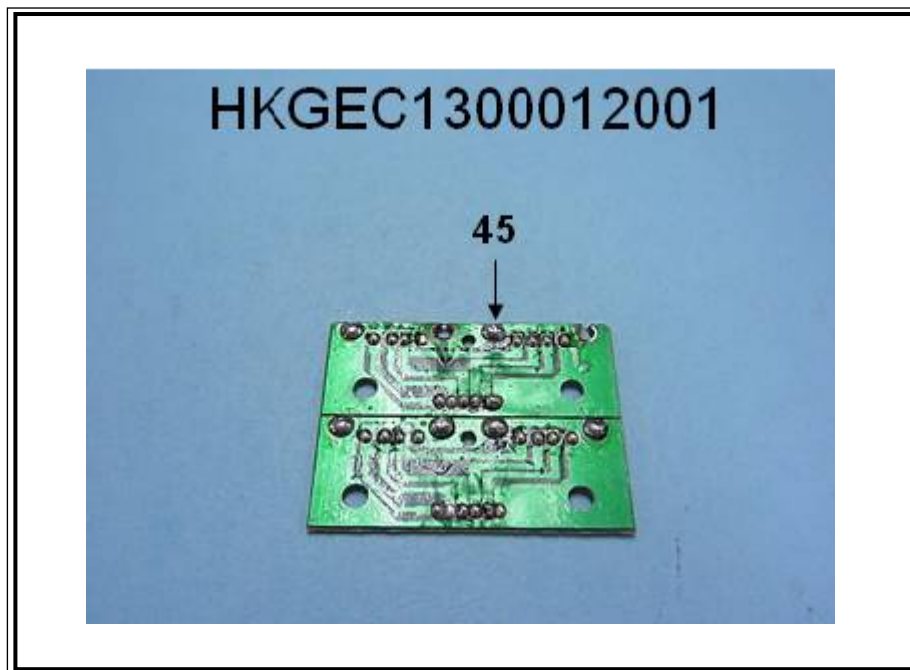
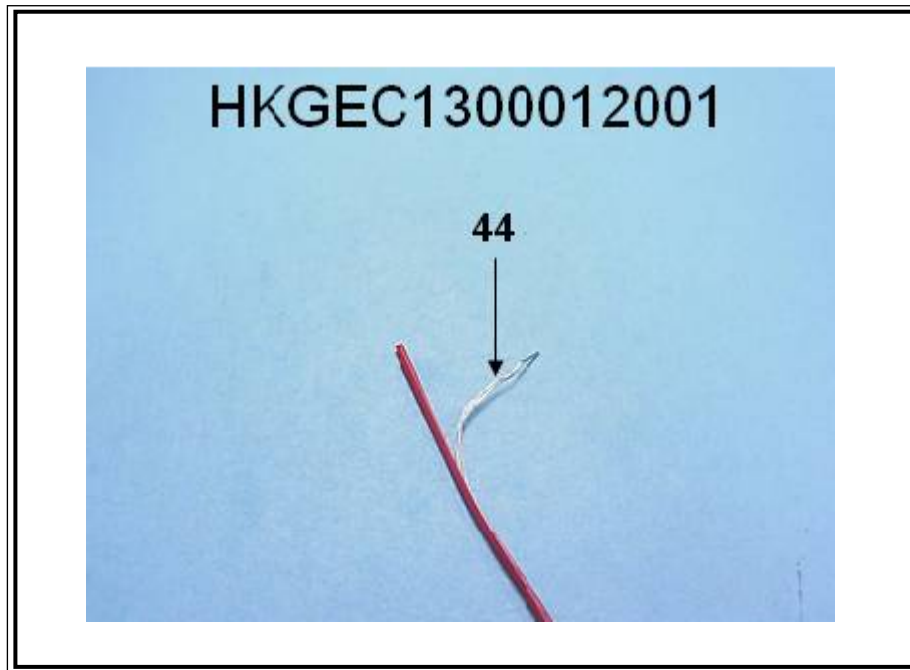
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