

Reference No. : TRHZ1404505

Date : Apr. 03, 2014

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Client : JIAXING HONGYUE ELECTRON CO., LTD. Address : XINGZHUANG VILLAGE, XINCHENG TOWN, JIAXING CITY, ZHEJIANG PROVINCE, CHINA.

The following merchandise was (were) submitted and identified by the client as:

Name of Product :	SOLAR LIGHT
Tested Main Model :	HY-S511(B)
Tested Other Model :	/
May Cover Model :	Please refer to next page(s).
Sample Received :	Mar. 17, 2014
	Mar. 25, 2014
Test Period :	Mar. 17, 2014- Mar. 27, 2014
Test Request :	According to customer's requirements, Split the sample and determine the Pb, Cd,
	Hg, Cr(VI), PBBs & PBDEs content of the parts.
Test Method :	 Sample prepared with reference to IEC 62321-2:2013 Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation
	 Sample Screening testing with reference to IEC 62321-3-1:2013 Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry.
	3. Wet Chemical Test Method
	 a. Determination of Lead ,Cadmium by ICP-OES with reference to IEC 62321-5:2013
	b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013
	c. Determination of Hexavalent Chromium by Spot test or UV-Vis Method with
	reference to IEC 62321:2008
	d. Determination of PBBs and PBDEs by GC-MS with reference to IEC
	62321:2008
Test Result :	Please refer to next page(s).
Conclusion :	Based on the analysis on the submitted samples, the test results comply with the
	RoHS Directive 2011/65/EU (RoHS 2.0) and its subsequent amendments.
	atoduct Service

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HY-A001/HY-A002/HY-A003/HY-A004/HY-A005/HY-A006/HY-A007/HY-A008/ May Cover Model : HY-A009/HY-A010/HY-A011/HY-A012/HY-A013/HY-A014/HY-A015/HY-A016/HY-S10 5/HY-S105(B)/HY-S106/HY-S107/HY-S107(B)/HY-S315/HY-S316/HY-S317/HY-S318/ HY-S401/HY-S402/HY-S403/HY-S404/HY-S404(B)/HY-S405/HY-S406/HY-S407/HY-S 408/HY-S409/HY-S410/HY-S411/HY-S412/HY-S413/HY-S501/HY-S502/HY-S503/HY-S504/HY-S505/HY-S505(B)/HY-S506/HY-S506(B)/HY-S507/HY-S507(B)/HY-S509/HY -S510/HY-S511/HY-S511(B)/HY-S512/HY-S513/HY-S514/HY-S515/HY-S516/HY-S51 7/HY-S518/HY-S519/HY-205/HY-206/HY-206(B)/HY-207/HY-208/HY-209/HY-210/HY-209/HY-P503/HY-P405/HY-P406/HY-P407/HY-P408/HY-P409/HY-P410/HY-P411/HY-P412/HY-P413/HY-P414/HY-P415/HY-P416/HY-P417/HY-501/HY-502/HY-503/HY-50 4/HY-505/HY-505(B)/HY-506/HY-P001/HY-P001(B)/HY-P002/HY-P003/HY-P004/HY-P005/HY-P006/HY-P007/HY-P008/HY-P009/HY-P011-1/HY-P011-2/HY-P011-3/HY-P0 12/HY-P401/HY-P402/HY-P403/HY-P404/HY-P404(B)/HY-601/HY-602/HY-603/HY-F0 02/HY-F002(B)/HY-F003/HY-F004/HY-F004(B)HY-SS001/HY-SS002/HY-SS003/HY-S S004/HY-SS005/HY-SS005(B)/HY-SS006/HY-SS007/HY-SS008/HY-SS009/HY-SS01 0/HY-SS011/HY-SS012/HY-SS013/HY-SS013(B)/HY-SS014/HY-SS015/HY-SS016/H Y-SS017/HY-SS018/HY-SS019/HY-SZ001/HY-SZ002/HY-SZ003/HY-SZ004/HY-SZ00 4(B)/HY-SZ005/HY-SZ005(B)/HY-SZ006/HY-SZ007/HY-SZ008/HY-SZ009/HY-SZ010/ HY-SZ011/HY-SZ012/HY-SZ012(B)/HY-SZ013/HY-SZ014/HY-SZ015/HY-SZ016/HY-S Z017/HY-SZ017(B)/HY-SZ017(C)/HY-SZ018/HY-SZ019/HY-SZ020/HY-SZ021/HY-SZ 022/HY-SZ023/HY-SZ024/HY-SZ025/HY-SZ026/HY-SZ027/HY-SZ028/HY-SZ029/HY-SZ030/HY-SZ031/HY-SZ032/HY-SZ033/HY-SZ034/HY-SZ035/HY-SZ036/HY-SZ037/ HY-SZ038./HY-SZ039/HY-SZ040

******** To be continued ********

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TEST RESULTS:

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
1#	Silvery metal shell	Hg	BL		Comply	Mar. 19, 2014/
1#	(shell)	Cr(VI)	IN	Negative	Comply	Mar. 21, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
<u>0</u> #	White plastic tube	Hg	BL		Comply	Mar 10 0014
2#	(shell)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
0.4	Black plastic shell	Hg	BL		Comply	Mar. 19, 2014/
3#	(shell)	Cr(VI)	BL		Comply	Mar. 21, 2014
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
		Pb	IN	60 ^R	Comply	
		Cd	BL		Comply	
4#	Silvery metal solder	Hg	BL		Comply	Mar. 19, 2014/
4#	strip (solar plate)	Cr(VI)	BL		Comply	Mar. 27, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
5#	Silicon layer (solar	Hg	BL		Comply	Mar. 19, 2014
5#	plate)	Cr(VI)	BL		Comply	iviai. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	

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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
C#	Transparent plastic	Hg	BL		Comply	Mar 10 0014
6#	sheet (solar plate)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	IN	60 ^R	Comply	
		Cd	IN	N.D.	Comply	
7#	Silvery solder tin	Hg	BL		Comply	Mar. 19, 2014/
/#	(solar plate)	Cr(VI)	BL		Comply	Mar. 27, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
8#	White rubber (solar	Hg	BL		Comply	Mar. 19, 2014
0#	plate)	Cr(VI)	BL		Comply	Wal. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
9#	Silvery metal screw	Hg	BL		Comply	Mar. 19, 2014/
5#	(shell)	Cr(VI)	IN	Negative	Comply	Mar. 21, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
10#	Green PCB (lamp	Hg	BL		Comply	Mar. 19, 2014/
10#	holder)	Cr(VI)	BL		Comply	Mar. 21, 2014
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	

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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	IN	60 ^R	Comply	
		Cd	IN	N.D.	Comply	
444	Silvery solder tin	Hg	BL		Comply	Mar. 19, 2014/
11#	(lamp holder)	Cr(VI)	BL		Comply	Mar. 27, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
10#	Silvery metal pin	Hg	BL		Comply	Mar 10 0014
12#	(lamp holder)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
13#	Transparent LED	Hg	BL		Comply	Mar. 19, 2014/
13#	(lamp holder)	Cr(VI)	BL		Comply	Mar. 21, 2014
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
14#	White/Green rubber	Hg	BL		Comply	Mar. 19, 2014
14#	sheath (lamp holder)	Cr(VI)	BL		Comply	Wal. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
15#	Green ring resistor	Hg	BL		Comply	Mar. 19, 2014
15#	(PCB)	Cr(VI)	BL		Comply	iviai. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	

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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
10//	Black electronic	Hg	BL		Comply	Mar. 19, 2014/
16#	component (PCB)	Cr(VI)	BL		Comply	Mar. 21, 2014
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
474	Blue wire jacket	Hg	BL		Comply	May 10, 0014
17#	(cable)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
18#	Coppery metal wire	Hg	BL		Comply	Mar 10 0014
18#	(cable)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
19#	Red wire jacket	Hg	BL		Comply	Mar 10 2014
19#	(cable)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
20#	Silvery metal spring	Hg	BL		Comply	Mar 10 0014
∠∪#	(lamp holder)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs			NA	
		PBDEs			NA	

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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
21#	Silvery metal contact	Hg	BL		Comply	Mar. 19, 2014/
21#	sheet (lamp holder)	Cr(VI)	IN	Negative	Comply	Mar. 21, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	IN	60 ^R	Comply	
		Cd	IN	N.D.	Comply	
22#	Silvery solder tin	Hg	BL		Comply	Mar. 19, 2014/
22#	(lamp holder)	Cr(VI)	BL		Comply	Mar. 22, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
23#	Black metal holder	Hg	BL		Comply	Mar. 19, 2014/
23#	(PCB)	Cr(VI)	IN	Negative	Comply	Mar. 21, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
24#	Black plastic button	Hg	BL		Comply	Mar. 19, 2014
24#	(PCB)	Cr(VI)	BL		Comply	Mai. 19, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
25#	Orange plastic sheet	Hg	BL		Comply	Mar. 19, 2014
2J#	(PCB)	Cr(VI)	BL		Comply	wai. 13, 2014
		PBBs	BL		Comply	
		PBDEs	BL		Comply	

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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
26#	Silvery metal contact	Hg	BL		Comply	Mar. 19, 2014
20#	sheet (PCB)	Cr(VI)	BL		Comply	Mai. 19, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
27#	Silvery metal contact	Hg	BL		Comply	Mar. 19, 2014
21#	sheet (PCB)	Cr(VI)	BL		Comply	Wal. 19, 2014
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
28#	Silvery metal spring	Hg	BL		Comply	Mar 10 2014
∠0#	(PCB)	Cr(VI)	BL		Comply	Mar. 19, 2014
		PBBs			NA	
		PBDEs			NA	

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Remark:

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.

(b)Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (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 IEC62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ) <x<(130+3σ) td="" ≤ol<=""><td>BL≤(70-3σ)<x<(130+3σ) td="" ≤ol<=""><td>LOD<x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)></td></x<(130+3σ)></td></x<(130+3σ)>	BL≤(70-3σ) <x<(130+3σ) td="" ≤ol<=""><td>LOD<x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)></td></x<(130+3σ)>	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
Pb	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(700-3σ)<x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)></td></x<(1300+3σ)>	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)>	BL≤(500-3σ) <x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)>
Hg	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(700-3σ)<x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)></td></x<(1300+3σ)>	BL≤(700-3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500-3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)>	BL≤(500-3σ) <x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)>
Br	BL≤(300-3σ)<Χ		BL≤(250-3σ)<Χ
Cr	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not Regulated, NA = Not Applicable.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) mg/kg = ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.
 - (b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr⁶⁺ for polymer & composite sample is 2 mg/kg.

- (c) According to IEC 62321:2008, result on Cr⁶⁺ for metal sample is shown as Positive/Negative. Positive = Presence of Cr^{6+} coating, Negative = Absence of Cr^{6+} coating.
- (d) (R)=Re-submitted sample.

******** To be continued ********

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(3) RoHS Exemptions

Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
1, Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
1(a), For general lighting purposes < 30 W:2.5 mg	
1(b), For general lighting purposes≥ 30 W and < 50W:3.5mg	
 For general lighting purposes ≥ 50 W and < 150 W: 5 mg 	
1(d), For general lighting purposes ≥ 150 W: 15 mg	
1(e), For general lighting purposes with circular or square structural shape and tube diameter \leq 17 mm: 7 mg	
1(f), For special purposes: 5 mg	
1(g), For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg	Expires on 31 December 2017
2(a), Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
2(a)(1), Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	
$2(a)(2)$, Tri-band phosphor with normal lifetime and a tube diameter $\ge 9 \text{ mm}$ and $\le 17 \text{ mm}$ (e.g. T5): 3 mg	
$2(a)(3)$, Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8):3.5mg	
2(a)(4), Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3.5 mg	
$2(a)(5)$, Tri-band phosphor with long lifetime ($\geq 25\ 000\ h$): 5 mg	
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(2), Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3), Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g.	
T9):15mg	
2(b)(4), Lamps for other general lighting and special purposes (e.g. induction	
lamps):15mg	
3, Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):	
3(a), Short length (\leq 500 mm):3.5mg 3(b), Medium length (> 500 mm and \leq 1 500 mm):5mg	
3(b), Medium length (> 1 500 mm):13mg	
4(a), Mercury in other low pressure discharge lamps (per lamp):15mg	
4(b), Mercury in High Pressure Sodium (vapour) lamps for general lighting	
purposes not exceeding (per burner) in lamps with improved colour rendering	
index Ra > 60:	
4(b) –I, P ≤155 W:30mg	
$4(b) -II, 155 W < P \le 405 W:40mg$	
4(b) –III, P > 405 W:40mg	
4I, Mercury in other High Pressure Sodium (vapour) lamps for	
general lighting purposes not exceeding (per burner):	
4I-I, P ≤ 155 W:25mg	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
4I-II, 155 W < P ≤ 405 W:30mg	
4I-III, P > 405 W:40mg	
4(d), Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
4(e), Mercury in metal halide lamps (MH)	
4(f), Mercury in other discharge lamps for special purposes not specifically	
mentioned in this Annex	
5(a), Lead in glass of cathode ray tubes	
5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
6(a), Lead as an alloying element in steel for machining purposes and in	
galvanized steel containing up to 0,35 % lead by weight	
6(b), Lead as an alloying element in aluminium containing up to 0,4 % lead by	
weight	
6I, Copper alloy containing up to 4 % lead by weight	
7(a), Lead in high melting temperature type solders (i.e. lead- based alloys	
containing 85 % by weight or more lead)	
7(b), Lead in solders for servers, storage and storage array systems, network	
infrastructure equipment for switching, onizing , transmission, and network	
management for telecommunications	
7I-I, Electrical and electronic components containing lead in a glass or ceramic	
other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a	
glass or ceramic matrix compound	
7I-II, Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250	
V DC or higher 7I-III, Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V	Expires on 1 January 2013 and
AC or 250 V DC	after that date may be used in
	spare parts for EEE placed on the
	market before 1 January 2013
7I-IV, Lead in PZT based dielectric ceramic materials for capacitors being part of	Expires on 21 July 2016
integrated circuits or discrete semiconductors	
8(a), Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and
	after that date may be used in
	spare parts for EEE placed on the
	market before 1 January 2012
8(b), Cadmium and its compounds in electrical contacts	
9, Hexavalent chromium as an anticorrosion agent of the carbon steel cooling	
system in absorption refrigerators up to 0,75 % by weight in the cooling solution	
9(b), Lead in bearing shells and bushes for refrigerant-containing compressors for	
heating, ventilation, air conditioning and refrigeration (HVACR) applications	
11(a), Lead used in C-press compliant pin connector systems	May be used in spare parts for
	EEE placed on the market before
	24 September 2010
11(b), Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and
	after that date may be used in
	spare parts for EEE placed on the
	market before 1 January 2013

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Exemptions

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RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
12, Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
13(a), Lead in white glasses used for optical applications	
13(b), Cadmium and lead in filter glasses and glasses used for reflectance standards	
14, Lead in solders consisting of more than two elements for the connection between the pins and the package of micropro-cessors with a lead content of more than 80 % and less than 85 % by weight	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
15, Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	
17, Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
18(b), Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP ($BaSi_2O_5$:Pb)	
21, Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	
23, Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010
24, Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	
25, Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	
29, Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive $69/493/EEC$ (¹)	
30, Cadmium alloys as electrical/mechanical solder joints to elec-trical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 Db (A) and more	
31, Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	
32, Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	
33, Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power transformers	
34, Lead in cermet-based trimmer potentiometer elements37, Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	
38, Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	

39, Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm² of light-emitting Expires on 1 July 2014 area) for use in solid state illumination or display systems

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Expires Date

Exemptions

RoHS Directive 2011/65/EU ANNEX III

Exemption Items

Note: 1. (¹) OJ L 326, 29.12.1969, p.36.

2. For the purposes of Directive 2011/65/EU, a maximum concentration value of 0,1 % by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0,01 % by weight in homogeneous materials for cadmium shall be tolerated.

Exemptions	
RoHS Directive 2011/65/EU ANNEX IV	
Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
1. Lead, cadmium and mercury in detectors for onizing radiation.	
2. Lead bearings in X-ray tubes.	
3. Lead in electromagnetic radiation amplification devices: micro-channel	
plate and capillary plate.	
4. Lead in glass frit of X-ray tubes and image intensifiers and lead in glass	
frit binder for assembly of gas lasers and for vacuum tubes that convert	
electromagnetic radiation into electrons.	
5. Lead in shielding for onizing radiation.	
6. Lead in X-ray test objects.	
7. Lead stearate X-ray diffraction crystals.	
8. Radioactive cadmium isotope source for portable X-ray fluorescence	
spectrometers.	
Sensors, detectors and electrodes	
8.1a. Lead and cadmium in ion selective electrodes including glass of Ph	
electrodes.	
8.1b. Lead anodes in electrochemical oxygen sensors.	
8.1c. Lead, cadmium and mercury in infra-red light detectors.	
8.1d. Mercury in reference electrodes: low chloride mercury chloride,	
mercury sulphate and mercury oxide.	
9. Cadmium in helium-cadmium lasers.	
10. Lead and cadmium in atomic absorption spectroscopy lamps.	
11. Lead in alloys as a superconductor and thermal conductor in MRI.	
12. Lead and cadmium in metallic bonds creating superconducting	Expires on 30 June 2021
magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or	
FTMS (Fourier Transform Mass Spectrometer) detectors.	
13. Lead in counterweights.	
14. Lead in single crystal piezoelectric materials for ultrasonic	
transducers.	
15. Lead in solders for bonding to ultrasonic transducers.	
16. Mercury in very high accuracy capacitance and loss measurement	
bridges and in high frequency RF switches and relays in monitoring and	
control instruments not exceeding 20 mg of mercury per switch or relay.	
17. Lead in solders in portable emergency defibrillators.	
18. Lead in solders of high performance infrared imaging modules to	
detect in the range 8-14 µm.	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV	
Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
19. Lead in Liquid crystal on silicon (LcoS) displays.	
20. Cadmium in X-ray measurement filters.	
21. Cadmium in phosphor coatings in image intensifiers for X-ray images	
until 31 December 2019 and in spare parts for X-ray systems placed on	
the EU market before 1 January 2020.	
22. Lead acetate marker for use in stereotactic head frames for use with	Expires on 30 June 2021.
CT and MRI and in positioning systems for gamma beam and particle	
therapy equipment.	
23. Lead as an alloying element for bearings and wear surfaces in	Expires on 30 June 2021
medical equipment exposed to onizing radiation.	
24. Lead enabling vacuum tight connections between aluminium and	Expires on 31 December 2019
steel in X-ray image intensifiers.	
25. Lead in the surface coatings of pin connector systems requiring	Expires on 30 June 2021
nonmagnetic connectors which are used durably at a temperature below	
-20 °C under normal operating and storage conditions.	
26. Lead in	Expires on 30 June 2021
- solders on printed circuit boards,	
- termination coatings of electrical and electronic components and	
coatings of printed circuit boards,	
- solders for connecting wires and cables,	
- solders connecting transducers and sensors,	
that are used durably at a temperature below – 20 $^{\circ}$ C under normal	
operating and storage conditions.	
27. Lead in	Expires on 30 June 2020
- solders,	
- termination coatings of electrical and electronic components and	
printed circuit boards,	
- connections of electrical wires, shields and enclosed connectors,	
which are used in	
magnetic fields within the sphere of 1 m radius around the isocentre of the	
magnet in medical magnetic resonance imaging equipment, including	
patient monitors designed to be used within this sphere, or	
magnetic fields within 1 m distance from the external surfaces of cyclotron	
magnets, magnets for beam transport and beam direction control applied	
for particle therapy.	
28. Lead in solders for mounting cadmium telluride and cadmium zinc	Expires on 31 December 2017
telluride digital array detectors to printed circuit boards.	
29. Lead in alloys, as a superconductor or thermal conductor, used in	Expires on 30 June 2021
cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in	
cryo-cooled equipotential bonding systems, in medical devices (category	
8) and/or in industrial monitoring and control instruments.	
30. Hexavalent chromium in alkali dispensers used to create	
photocathodes in X-ray image intensifiers until 31 December 2019 and in	
spare parts for X-ray systems placed on the EU market before 1 January	
2020.	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV	
Equipment onizing or detecting onizing radiation	
Exemption Items	Expires Date
31. Lead, cadmium and hexavalent chromium in reused spare parts, recovered from medical devices placed on the market before 22 July 2014 and used in category 8 equipment placed on the market before 22 July 2021, provided that reuse takes place in auditable closed-loop business-to-business return systems, and that the reuse of parts is notified to the consumer.	Expires on 21 July 2021
32. Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.	Expires on 31 December 2019
33. Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class lia and lib mobile medical devices other than portable emergency defibrillators.	Expires on 30 June 2016 for class lia and on 31 December 2020 for class lib.
34. Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi2O5:Pb) phosphors.	Expires on 22 July 2021

******** To be continued ********

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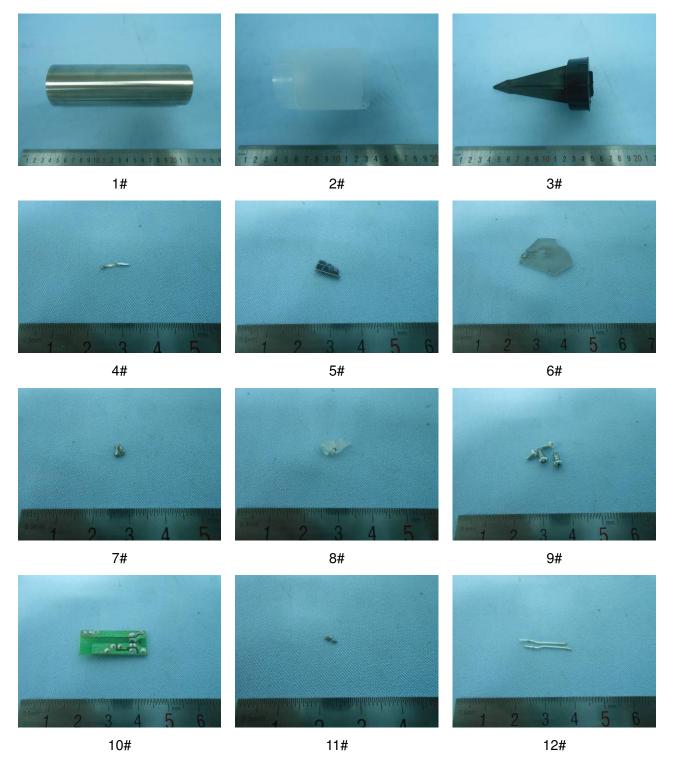


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SAMPLE PHOTOS





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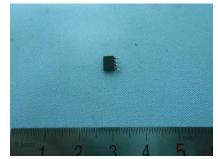
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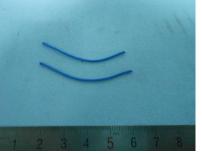
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15#



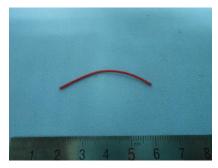
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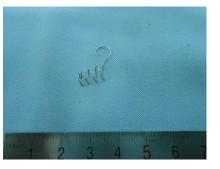
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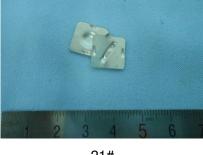
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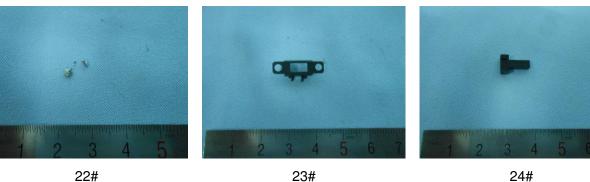
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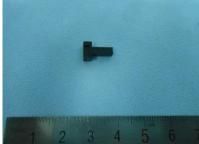


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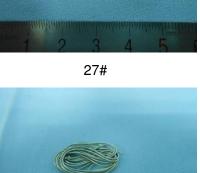
Date : Apr. 03, 2014

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25#







28#



4#-(R)



7#-(R)



11#-(R)



22#-(R)

******** To be continued ********

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MAIN MODEL'S PRODUCT PHOTO



MAY COVER MODEL'S PRODUCT PHOTOS

The following photo(s) was/were submitted and identified by the client, only for reference:





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