

Test Report

Report No.: G180713Z30EN

Date: Jul. 19, 2018

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The following information was submitted and identified by/on behalf of the client:

Applicant : YUEQING DAIER ELECTRON CO., LTD.
Address : No.1636 Liuhuang Road, Xirendang Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province, China
Sample Name : switch
Sample Model : KCD2
Receive Date : Jul. 16, 2018
Testing period : Jul. 16, 2018 - Jul. 19, 2018
Test Requested : As requested by client, determination of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(CrVI), Polybrominated biphenyls(PBBs), Polybrominated diphenyl ethers(PBDEs) and Dibutyl phthalate(DBP), Butyl benzyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) and Di-iso-butyl phthalate(DIBP) content in the submitted sample(s) assigned by applicant according to RoHS Directive 2011/65/EU and its amendment (EU) 2015/863 -The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.
Test Method : Please refer to the next page(s).
Test Result(s) : Please refer to the next page(s).
Conclusion(s) : Please refer to the next page(s).

ORIGINAL

Authorized signature:

Lab Manager: Gavin Zhou



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Test Result(s):

Test Sample Description

Material No.	Material Description
<u>01</u>	Black plastic shell
<u>02</u>	Black rubber waterproof jacket
<u>03</u>	Silvery metal spring
<u>04</u>	Silvery metal contact bridge
<u>05</u>	Silvery metal contact

RoHS(Pb, Cd, Hg, CrVI, PBBs, PBDEs and Phthalates(DBP, BBP, DEHP, DIBP))

Test Method: Lead(Pb), Cadmium(Cd) – With reference to IEC 62321-5: 2013

Mercury(Hg) – With reference to IEC 62321-4: 2013

Chromium VI(CrVI): For Metal material – With reference to IEC 62321-7-1: 2015

For Polymer or Electronic material – With reference to IEC 62321-7-2: 2017

PBBs, PBDEs – With reference to IEC 62321-6: 2015

DBP, BBP, DEHP, DIBP – With reference to IEC 62321-8: 2017

Test item	Limit	Unit	MDL	<u>03</u>	<u>04</u>	<u>05</u>
Lead(Pb)	1000	mg/kg	2	25	108	8
Cadmium(Cd)	100	mg/kg	2	N.D.	N.D.	11519*
Mercury(Hg)	1000	mg/kg	2	N.D.	N.D.	N.D.
Chromium VI(CrVI)	--	--	--	Negative	Negative	Negative
Conclusion(s)				PASS	PASS	PASS

Test item	Limit	Unit	MDL	<u>01</u>	<u>02</u>
Lead(Pb)	1000	mg/kg	2	N.D.	7
Cadmium(Cd)	100	mg/kg	2	N.D.	N.D.
Mercury(Hg)	1000	mg/kg	2	N.D.	N.D.
Chromium VI(CrVI)	1000	mg/kg	2	N.D.	N.D.
Dibutyl phthalate(DBP)	1000	mg/kg	50	N.D.	N.D.
Butyl benzyl phthalate(BBP)	1000	mg/kg	50	N.D.	N.D.
Di-2-ethylhexyl phthalate(DEHP)	1000	mg/kg	50	N.D.	N.D.
Di-iso-butyl phthalate(DIBP)	1000	mg/kg	50	N.D.	N.D.
Monobromobiphenyls	--	mg/kg	5	N.D.	N.D.
Dibromobiphenyls	--	mg/kg	5	N.D.	N.D.
Tribromobiphenyls	--	mg/kg	5	N.D.	N.D.

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<u>Test item</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>01</u>	<u>02</u>
Tetrabromobiphenyls	--	mg/kg	5	N.D.	N.D.
Pentabromobiphenyls	--	mg/kg	5	N.D.	N.D.
Hexabromobiphenyls	--	mg/kg	5	N.D.	N.D.
Heptabromobiphenyls	--	mg/kg	5	N.D.	N.D.
Octabromobiphenyls	--	mg/kg	5	N.D.	N.D.
Nonabromobiphenyls	--	mg/kg	5	N.D.	N.D.
Decabromobiphenyl	--	mg/kg	5	N.D.	N.D.
Group PBBs	1000	mg/kg	--	N.D.	N.D.
Monobromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Dibromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Tribromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Tetrabromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Pentabromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Hexabromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Heptabromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Octabromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Nonabromodiphenyl ethers	--	mg/kg	5	N.D.	N.D.
Decabromodiphenyl ether	--	mg/kg	5	N.D.	N.D.
Group PBDEs	1000	mg/kg	--	N.D.	N.D.
Conclusion(s)				PASS	PASS

- Note:**
1. MDL = Method Detection Limit;
 2. N.D. = Not detected, less than MDL;
 3. "*" = Exemption item.

According to the declaration from the client, Cadmium(Cd) in No. 05 is exempted by EU RoHS Directive 2011/65/EU based on: 8(b). Cadmium and its compounds in electrical contacts.

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Sample Photo(s):



GIG authenticate the photo(s) on original report only

*****End of Report*****

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