

Survey Report

KYTECH ELECTRONICS, LTD.
NO. 135-2, KAO-SAN-HSIA, KAOSHUANG LI,
PING JHEN CITY, TAOYUAN HSIEN, TAIWAN

Report No : CS/2006/50302
Date : 2006/05/24
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The following merchandise was(were) submitted and identified by the client as :

Type of Product : SOLID STATE RELAY
Style/Item No : PANEL TYPE(KC、KD、KG、KL、KR SERIES)

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Test Result : - Please see the next page -

This report is combined with 17 copies of test reports which hereby certified by SGS through the verification of each above certification provided by client


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

Survey Report

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Test Result

PART NAME NO.1 : MIXED ALL PARTS(FIXED RESISTORS)(CE/2005/B2109)
 PART NAME NO.2 : BLACK PLASTIC BODY(CS/2005/B0048 NO.1)
 PART NAME NO.3 : SILVER COLORED METAL PIN(CS/2005/B0048 NO.2)
 PART NAME NO.4 : MIXED ALL PARTS(CS/2005/B0048 NO.3)
 PART NAME NO.5 : MIXED YELLOWISH BROWN BODY WITH BROWN PRINTED(CE/2005/44501A)
 PART NAME NO.6 : MIXED YELLOW EPOXY RESIN & SILVER COLORED METAL ZINC WIRE & SILVER COLORED METAL ZINC-TIN WIRE & SILVERY COPPER WIRE & SILVER COLORED METAL FILM & YELLOW TAPE(CE/2005/41073)
 PART NAME NO.7 : MIXED ALL PARTS(TOSHIBA SEMICONDUCTOR)(CE/2005/B6346A)
 PART NAME NO.8 : BLACK PLASTIC PART(GZSCR040308935/LP)
 PART NAME NO.9 : TRANSPARENT BODY(GZSCR050635328/LP NO.1)
 PART NAME NO.10 : SILVERY METAL PIN(GZSCR050635328/LP NO.2)
 PART NAME NO.11 : LUPOX GP-2156F NP(F690101/LF-CTS020067)
 PART NAME NO.12 : GREEN BOARD(CE/2004/A0681)
 PART NAME NO.13 : MULTICOLORED PLASTIC PELLETS(CE/2005/33371)
 PART NAME NO.14 : SILVER COLORED METAL(CE/2004/C4252A)
 PART NAME NO.15 : BROWN-YELLOW LIQUID(CE/2004/52741)
 PART NAME NO.16 : SILVER COLORED METAL SCREW(CE/2005/A4381)
 PART NAME NO.17 : ALUMINIUM SHEET(KA/2005/90462)
 PART NAME NO.18 : EPORITE 5350A/B(KA/2006/10403)
 PART NAME NO.19 : GRAY SHEET(CE/2005/40060A)
 PART NAME NO.20 : SILVER COLORED METAL WIRE(CE/2005/A1680A)

Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	72.9	85.8	68.4	14.9

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Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	---	N.D.	N.D.
Dibromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Pentabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Hexabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Heptabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Octabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Nonabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Decabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	N.D.	---	N.D.	N.D.
Monobromobiphenyl ether	%		With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	---	N.D.
Dibromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Tribromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Tetrabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Pentabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Hexabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Heptabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Octabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Nonabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Decabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%	-		N.D.	N.D.	---	N.D.	N.D.
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%	-		N.D.	N.D.	---	N.D.	N.D.

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	7.0	26.0
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	47.9	11.0	N.D.	N.D.	N.D.

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Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
Dibromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Tribromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Pentabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Hexabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Heptabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	---
Octabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	---
Nonabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	---
Decabromobiphenyl	%		0.0005	N.D.	N.D.	---	N.D.	---
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	N.D.	---	N.D.	---
Monobromobiphenyl ether	%		With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl ether	%	0.0005		N.D.	N.D.	N.D.	N.D.	---
Tribromobiphenyl ether	%	0.0005		N.D.	N.D.	N.D.	N.D.	---
Tetrabromobiphenyl ether	%	0.0005		N.D.	N.D.	N.D.	N.D.	---
Pentabromobiphenyl ether	%	0.0005		N.D.	N.D.	N.D.	N.D.	---
Hexabromobiphenyl ether	%	0.0005		N.D.	N.D.	N.D.	N.D.	---
Heptabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	---
Octabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	---
Nonabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	---
Decabromobiphenyl ether	%	0.0005		N.D.	N.D.	---	N.D.	---
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%	-		N.D.	N.D.	---	N.D.	---
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%	-		N.D.	N.D.	---	N.D.	---

Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	---	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.	12.0	498.7	9.4

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Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Cadmium (Cd)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	---	---	---	---

Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
Dibromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Tribromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Pentabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Hexabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Heptabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Octabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Nonabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Decabromobiphenyl	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	N.D.	N.D.	N.D.	---
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.	N.D.	---
Dibromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Tribromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Tetrabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Pentabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Hexabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Heptabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Octabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Nonabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Decabromobiphenyl ether	%		0.0005	N.D.	N.D.	N.D.	N.D.	---
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	N.D.	N.D.	N.D.	---
Total of Mono to Nonabrominated biphenyl ether. (Note 4)	%	-	N.D.	N.D.	N.D.	N.D.	---	

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Test Item(s):	Unit	Method	MDL	Result				
				NO.16	NO.17	NO.18	NO.19	NO.20
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	N.D.	N.D.	N.D.
Dibromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Pentabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Hexabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Heptabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Octabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Nonabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Decabromobiphenyl	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	---	N.D.	N.D.	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	---	N.D.	N.D.	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.	---	N.D.	N.D.	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	---	N.D.	N.D.	N.D.
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	%	-	N.D.	---	N.D.	N.D.	N.D.	

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Test Item(s):	Unit	Method	MDL	Result				
				NO.16	NO.17	NO.18	NO.19	NO.20
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.	N.D.	N.D.	184.3

- NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
 (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
 (6) " - " = Not Regulation
 (7) " --- " = Not Applicable

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