

Certificate of non-use of The Controlled Substances

Company name	Littelfuse, Inc.
Product Covered	SIDACtor [®] , DO-214AA & COMPAK [®] Package SIDAC, DO-214AA Package SiBOD [™] , DO-214AA Package, SMTBJ series Thyristor, COMPAK [®] Package BATTRAX [®] , COMPAK [®] Package PLED, DO-214AA Package

Issue Date August 13, 2011 (revised to add new part numbers, February 12, 2012)

It is hereby certified by Littelfuse, Inc., that there is neither RoHS (EU Directive 2011/65/EU)-restricted substance, nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes.

It is also certified by Littelfuse, Inc., that the products listed in this report do not contain Halogens and their compounds judged per widely accepted industrial guidelines.

In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by

< K.Yoshimoto, Senior Product Engineer, Littelfuse, Inc.>

(1) Parts, sub-materials and unit parts This document covers DO-214AA package & COMPAK package, RoHS-Compliant and Halogen-free series manufactured by Littelfuse Concord Wuxi Plant (Wuxi, China), supplied by Littelfuse, Inc. Please see page 2-5 for the complete list of part number covered by this report.

< Homogeneous Materials used > Please see figure and table 1 on page 6 and table 2 on page 7-10 of this document.

(2) The analytical data on all measurable substancesPlease see annex 1 through 7, attached to this document.

Remarks :

Pb (lead) contained in die bonding solder (item 8 on page 6) and passivation glass (item 7) to be categorized as exempt in RoHS Annex III 7(a) and 7(c)-I.

Please refer to Annex 8 of this report for the extract of the applicable exemptions of RoHS (EU Directive 2011/65/EU)



Littelfuse Part Number covered by this report (1/3) SIDACtor[®] Standard Devices

	SIDACION SI	andard Devices	
P0080SALRP	P0722SBLRP	P1302SCLRP	P2500SALRP
P0080SAMCLRP	P0722SCLRP	P1402SALRP	P2500SBLRP
P0080SBLRP	P0900SALRP	P1402SBLRP	P2500SCLRP
P0080SBMCLRP	P0900SBLRP	P1500SALRP	P2500SCMCLRP
P0080SCLRP	P0900SCLRP	P1500SBLRP	P2600SALRP
P0080SCMCLRP	P0900SCMCLRP	P1500SCLRP	P2600SBLRP
P0080SDLRP	P0900SDLRP	P1500SCMCLRP	P2600SCLRP
P0220SALRP	P0901CA2LRP	P1500SDLRP	P2600SCMCLRP
P0220SAMCLRP	P0901SALRP	P1502SALRP	P2600SDLRP
P0220SBLRP	P0901SBLRP	P1502SBLRP	P2600STLRP
P0220SBMCLRP	P0901SCLRP	P1502SCLRP	P2602SALRP
P0220SCLRP	P0902SALRP	P1701CA2LRP	P2602SBLRP
P0220SCMCLRP	P0902SBLRP	P1701SALRP	P2602SCLRP
P0300SALRP	P0902SCLRP	P1701SBLRP	P3002SALRP
P0300SAMCLRP	P1100SALRP	P1701SCLRP	P3002SBLRP
P0300SBLRP	P1100SBLRP	P1800SALRP	P3002SCLRP
P0300SBMCLRP	P1100SCLRP	P1800SBLRP	P3100SALRP
P0300SCLRP	P1100SCMCLRP	P1800SCLRP	P3100SBLRP
P0300SCMCLRP	P1100SDLRP	P1800SCMCLRP	P3100SCLRP
P0640SALRP	P1101CA2LRP	P1800SDLRP	P3100SCMCLRP
P0640SBLRP	P1101SALRP	P1800STLRP	P3100SDLRP
P0640SCLRP	P1101SBLRP	P1802SALRP	P3100STLRP
P0640SCMCLRP	P1101SCLRP	P1802SBLRP	P3100SXLRP
P0640SDLRP	P1101SDLRP	P1802SCLRP	P3500SALRP
P0641CA2LRP	P1102SALRP	P2000SALRP	P3500SBLRP
P0641SALRP	P1102SBLRP	P2000SBLRP	P3500SCLRP
P0641SBLRP	P1102SCLRP	P2000SCLRP	P3500SCMCLRP
P0641SCLRP	P1200SALRP	P2000SCMCLRP	P3500SDLRP
P0642SALRP	P1200SBLRP	P2100SALRP	P3500STLRP
P0642SBLRP	P1200SCLRP	P2100SBLRP	P3502SALRP
P0642SCLRP	P1200SCMCLRP	P2100SCLRP	P3502SBLRP
P0720SALRP	P1300SALRP	P2100SCMCLRP	P3502SCLRP
P0720SBLRP	P1300SBLRP	P2300SALRP	P3502SCLRP
P0720SCLRP	P1300SCLRP	P2300SBLRP	P4202SALRP
P0720SCMCLRP	P1300SCMCLRP	P2300SCLRP	P4202SCLRP
P0720SDLRP	P1300SDLRP	P2300SCMCLRP	P4802SALRP
P0721CA2LRP	P1301CA2LRP	P2300SDLRP	P4802SCLRP
P0721SALRP	P1301SCLRP	P2300STLRP	P6002SALRP
P0721SBLRP	P1301SDLRP	P2302SALRP	P6002SCLRP
P0721SCLRP	P1302SALRP	P2302SBLRP	P7002SCLRP
P0722SALRP	P1302SBLRP	P2302SCLRP	



Littelfuse Part Number covered by this report (2/3) SIDACtor[®] Special Devices

P376P1500SCRP	P923CRP	
P486P3100SBRP	P923WRP	Special device part numbers with base part
P618P3100SCRP	P925CRP	number listed in table 1/3 (standard devices)
P640P3100SBRP	P925WRP	are also automatically covered.
P641P3100SCRP	P926CRP	<i>,,,,,,,,</i>
P651P3100SARP	P926WRP	Their typical part number format is
P653P2600SBRP	P927CRP	PxxxPxxxxSxLRP.
P654P3100SBRP	P927WRP	"L" at 3 rd digit from right denotes RoHS-compliant.
P654P3100SBRPH	P931CRP	
P654P3100SBRPHF	P931WRP	
P655P3500SBRP		
P658P0300SARP		
P659P0640SARP		
P674P1500SCRP		
P675P1100SARP		
P676P0640SCRP		
P677P1800SCRP		
P678P0080SBRP		
P686P2300SBRP		
P688P1100SARP		
P689P1100SCRP		
P691P0300SCMCRP		
P692P3500SDRP		
P695P0300SARP		
P697P1300SARP		
P698CRP		
P698WRP		
P707P3100SARP		
P708P2300SBRP		
P712P0640SARP		
P716P3500SARP		
P746P2600SDRP		
P760ALRP		
P760BLRP		
P760LRP		

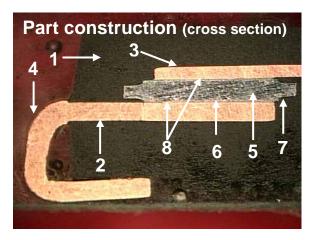


Littelfuse Part Number covered by this report (3/3) SIDAC, SiBOD[™], Thyristor, BATTRAX[®] and PLED Devices

SIDAC	SiBOD		Thyristor
K0820SRP	SMTBJ050A	L2N3RP	S4S3RP
K0900SRP	SMTBJ050B	L2N5RP	S4SRP
K1050SRP	SMTBJ056A-006	L2X3RP	S6N1RP
K1100SRP	SMTBJ070B	L2X5RP	S6S1RP
K1200SRP	SMTBJ100B	L4N3RP	S6S2RP
K1300SRP	SMTBJ108A-006	L4N5RP	S6S3RP
K1400SRP	SMTBJ120A	L4N6RP	S6SRP
K1500SRP	SMTBJ162A-006	L4N8RP	S813S4N1RP
K1800SRP	SMTBJ170A	L4X3RP	S827S4S2RP
K1801SRP	SMTBJ180A-006	L4X5RP	S828S4S1RP
K2000SHRP	SMTBJ200A	L4X6RP	S853S4S3RP
K2000SRP	SMTBJ200B	L4X8RP	S856S4SRP
K2200SHRP	SMTBJ216A-006	L6N3RP	S872S4S2RP
K2200SRP	SMTBJ240A	L6N5RP	S893S4SRP
K2400SHRP		L6N6RP	
K2400SRP		L6N8RP	
K2500SHRP		L6X3RP	
K2500SRP		L6X5RP	DATTD A V®
K222K1500SRP		L6X6RP	
K226K1500SRP		L6X8RP	B1100CALRP
K240K2500SRP		Q2N3RP	B1100CCLRP
K260K2500SRP		Q2N4RP	B1160CALRP
K282K2500SRP		Q2X3RP	B1160CCLRP
K298K1400SRP		Q2X4RP	B1200CALRP
K300K1801SRP		Q4N3RP	B1200CCLRP
K301K1500SRP		Q4N4RP	B2050CCLRP
K303K1200SRP		Q4X3RP	
K305K1500SRP		Q4X4RP	
K306K1300SRP		Q6N3RP	PLED
		Q6N4RP	PLED6S
		Q6X3RP	PLED9S
		Q6X4RP	PLED13S
		S2N1RP	PLED18S
		S2S1RP	PLES6US
		S2S2RP	PLED9US
		S2S3RP	PLED13US
		S2SRP	PLED18US
		S4N1RP	



Expertise Applied Answers Delivered



Material Used (where used)

This photo is for explanation only. Actual assembly design may be different.

Table 1: Homogeneous Material Used

#	Description	Name of Material	Туре	Analysis data
1	Molding compound	epoxy resin	plastic	annex 1
2	Lead frame	copper alloy	metal	annex 2 DO-214AA package uses same raw material and same supplier as TO-220. Report is from TO-220 material.
3	Clip	copper alloy	metal	annex 3
4	Matte-Tin plating	Tin	metal	annex 4
5	Silicon die	silicon	metal	annex 5, tested as Nickel-plated wafer.
6	Nickel electrode	nickel	metal	annex 3, lested as Mickel-plated water.
7	Passivation glass	glass	glass	annex 6 Pb in this glass is exempted by RoHS Annex III 7(c)-I. Please refer to Annex 8 for the RoHS exemption.
8	Die bonding solder	solder	metal	annex 7 Pb in this solder is exempted by RoHS Annex III 7(a). Please refer to Annex 8 for the RoHS exemption.



Table 2-1: RoHS-regulated substance in raw materials

Components & Raw Materials			Analyt	ical Test	Result		
	Cd Cadmium	Cr Chromium	Hg Mercury	Pb Lead	PBB	PBDE	TOTAL HALOGEN
As Component Total Values of P3100SDLRP* ¹ , as representative products of all DO-214 and COMPAK package See Annex 8 for whole component test.	< 2ppm	< 2ppm	< 2ppm	<10 ppm* ² (3.0% ^{*3})	< 5ppm	< 5ppm	< 88ppm
Epoxy Resin compound See Annex 1 for the detail.	< 2ppm	< 1ppm	< 2ppm	< 2ppm	< 5ppm	< 5ppm	88ppm
Lead frame (Copper Alloy, KFC) See Annex 2 for the detail.	< 2ppm	< 2ppm	< 2ppm	20ppm ^{*4}			
Clip (Copper Alloy 110) See Annex 3 for the detail.	< 2ppm	< 2ppm	< 2ppm	< 2ppm			
Outside lead finish (Sn 100%) See Annex 4 for the detail.	< 2ppm	< 2ppm	< 2ppm	29ppm ^{*₄}			
Silicon Die (Silicon + Ni electrode) See Annex 5 for the detail.	< 2ppm	< 2ppm	< 2ppm	48ppm ^{*₄}	< 5ppm	< 5ppm	<50ppm
Passivation Glass See Annex 6 for the detail.	< 2ppm	< 2ppm	< 2ppm	40% *5	< 5ppm	< 5ppm	<50ppm
Die Bonding Solder (Pb/Sn=90/10) See Annex 7 for the detail.	< 2ppm	< 2ppm	< 2ppm	90% ^{*6}	< 5ppm	< 5ppm	<50ppm

- *1 Other products may contain equal or less amount of Pb as P3100SDLRP value shown here, but not more than the value shown here.
- *2 Less than 10ppm Pb content overall, <u>excluding</u> Pb from the die bonding solder and the passivation glass on the silicon die.
- *3 Maximum 3.0wt% or 3.0mg of Pb (lead) content overall, including the RoHS-exempted use of Pb
- *4 Pb (lead) contained in lead frame, outside plating and silicon wafer is <u>not</u> exempted from restriction by RoHS, but considered as process contamination or naturally-occurring impurity in raw materials. Littelfuse does not add Pb (lead) intentionally.
- *5 Pb (lead) contained in passivation glass is exempted from restriction by RoHS Annex III 7(c)-I.
- *6 Pb (lead) contained in die bonding solder is exempted from restriction by RoHS Annex III 7(a). <u>Please refer to Annex 8 of this report for the applicable exemptions of RoHS (EU Directive 2011/65/EU)</u>



Annex 1: Analysis Result of Molding Compound (Page 1 of 7)

	Inte	ertek	
TEST REP	opt	Number :	WUXH00005739
			W0X100003733
Applicant :	EAST 1#,Z WUXI NAT WUXI,JIAN) SEMICONDUCTOR(WUXI) CO., LTD. Date : ZHENFA 6 ROAD, SHUO FANG INDUSTRIAL PARK FIONAL HIGH-TECH DEVELOPMENT ZONE, NGSU,CHINA HANG XIAOPENG	Aug 05, 2011
Sample Descript			
One (1) Piece Item Name	e Of Submitted	d Sample Said To Be : Brown Epoxy Molding Compound. : Epoxy Molding Compound.	
Vendor Component C	Or Part No.	: Cookson Electonics Semiconductor Products. : CK-2000A/CK-2000C.	
Test Item		: Cd,Pb,Hg,CrVI,PBBs,PBDEs,F,Cl,Br,I.	
Tests Conducted As Requested		licant, For Details Refer To Attached Pages	
Summary: Tested Sa	mple	Standard	Result
Submitted S		With Reference To Test Method Of IEC 62321 Edition 1.0: 2008 And Maximum Concentration Limits Quoted	
		From RoHS Directives 2002/95/EC And Amendment 2005/618/EC	PASS
		Wuxi Ltd.	
For Intertek Tes		Wuxi Ltd.	
For Intertek Tes J <i>eann</i> Ca Jessica Lu	ting Services	Wuxi Ltd.	
Prepared And Ch For Intertek Tes Jeanca Jessica Lu General Manage	ting Services	Wuxi Ltd.	
For Intertek Tes J <i>eann</i> Ca Jessica Lu	ting Services	Wuxi Ltd.	Page 1 Of



Annex 1: Analysis Result of Molding Compound (Page 2 of 7)

Is Conducted (As Requested By The Applicant) RoHS Directives Test (A) Test Result Summary: Testing Item Result Cadmium (Cd) Content (mg/kg) Result Cadmium (Cd) Content (mg/kg) ND Mercury (Hg) Content (mg/kg) ND Mercury (Hg) Content (mg/kg) ND Chromium (VI) (Cfr*) Content (mg/kg)(For Non-Metal) ND Polybrominated Biphenyls (PBBs)(mg/kg) Monobrominated Biphenyls (MonoBB) ND Tetrabrominated Biphenyls (TetraBB) ND Hexabrominated Biphenyls (TetraBB) ND Hexabrominated Biphenyls (HexaBB) ND Hexabrominated Biphenyls (HexaBB) ND Detarborninated Biphenyls (NonaBB) ND Detarborninated Biphenyls (NonaBB) ND Detarborninated Biphenyls (NonaBB) ND Nonabrominated Biphenyls (NonaBB) ND Tetrabrominated Biphenyls (NonaBB) ND Nonabrominated Biphenyls (NonaBB) ND Tetrabrominated Biphenyls (NonaBB) ND Nonabrominated Biphenyls (NonaBB) ND Tetrabrominated Biphenyls (NonaBB) ND Nonabrominated Diphenyl Ethers (PBDEs)(mg/kg) Monobrominated Diphenyl Ethers (TetraBDE) ND Tetrabrominated Diphenyl Ethers (TetraBDE) ND	TEST REPORT	Number : WUXH00005739
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Tribrominated Diphenyl Ethers (TriBDE) ND Tetrabrominated Diphenyl Ethers (TetraBDE) ND Pentabrominated Diphenyl Ethers (PentaBDE) ND Hexabrominated Diphenyl Ethers (HexaBDE) ND Heptabrominated Diphenyl Ethers (HexaBDE) ND Octabrominated Diphenyl Ethers (OctaBDE) ND Nonabrominated Diphenyl Ethers (OctaBDE) ND Nonabrominated Diphenyl Ethers (NonaBDE) ND Remark: mg/kg = Milligram Per Kilogram = ppm	Pionobrominated Diphenyl Ethers (Monobue)	
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Heptabrominated Diphenyl Ethers (HeptaBDE) ND Octabrominated Diphenyl Ethers (OctaBDE) ND Nonabrominated Diphenyl Ethers (NonaBDE) ND Decabrominated Diphenyl Ether (DecaBDE) ND Remark: mg/kg = Milligram Per Kilogram = ppm		
Octabrominated Diphenyl Ethers (OctaBDE) ND Nonabrominated Diphenyl Ethers (NonaBDE) ND Decabrominated Diphenyl Ether (DecaBDE) ND Remark: mg/kg = Milligram Per Kilogram = ppm		
Nonabrominated Diphenyl Ethers (NonaBDE) ND Decabrominated Diphenyl Ether (DecaBDE) ND Remark: mg/kg = Milligram Per Kilogram = ppm		
Remark: mg/kg = Milligram Per Kilogram = ppm		
Remark: mg/kg = Milligram Per Kilogram = ppm		
mg/kg = Milligram Per Kilogram = ppm		
ND = Not Detected		
	ND = Not Detected	
Page		
Page	Intertek Testing Services W No.8 Fubei Road, Xishan Economic Develc Wuxi 214101, Jiangsu, China Tel: +86 510 8821 4567 Fax: +86 510 6820 0428 E-mail: cor	ppment Zone,

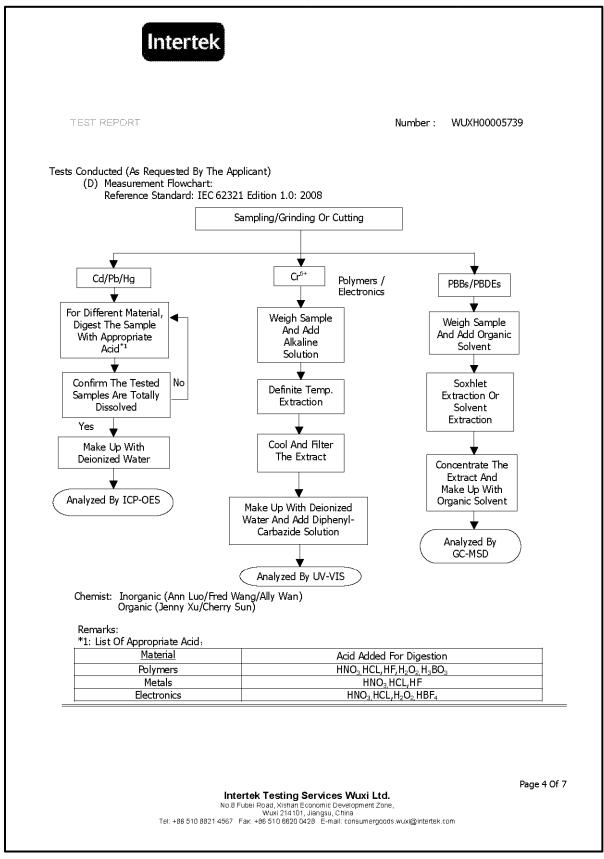


Annex 1: Analysis Result of Molding Compound (Page 3 of 7)

		Number : W	/UXH00005739
ts Conducted (As Requested By (B)RoHS Requirement:			
	ted Substances		imits
Cadmium (Cd) Lead (Pb)			(100 mg/kg) 1000 mg/kg)
Mercury (Hg)			1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)			1000 mg/kg)
Polybrominated Biphenyls (PB		0.1% (:	1000 mg/kg)
Polybrominated Diphenyl Ethe			1000 mg/kg)
_	d From 2002/95/EC And Amendment 20	05/618/EC For Ho	mogeneous Mate
(C) Test Method: Testing Item	Testing Method		Reporting Lir
	With Reference To IEC 62321 Edition 1	.0: 2008, By Acid	
Cadmium (Cd)Content Lead (Pb)Content	Digestion And Determined By ICP-OES With Reference To IEC 62321 Edition 1		2 mg/kg 2 mg/kg
Mercury (Hg)Content	Digestion And Determined By ICP-OES With Reference To IEC 62321 Edition 1 Digestion And Determined By ICP-OES	.0: 2008, By Acid	2 mg/kg
Chromium (VI) (Cr ⁵⁺) Content (For Non-Metal)	With Reference To IEC 62321 Edition 1 Alkaline Digestion And Determined By l	.0: 2008, By JV-VIS	1 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	Spectrophotometer With Reference To IEC 62321 Edition 1 Solvent Extraction And Determined By G Further HPLC Confirmation When Neces	GC-MSD And	5 mg/kg
Date Sample Received: Aug 0 Testing Period: Aug 01, 2011	1, 2011 To Aug 05, 2011		



Annex 1: Analysis Result of Molding Compound (Page 4 of 7)



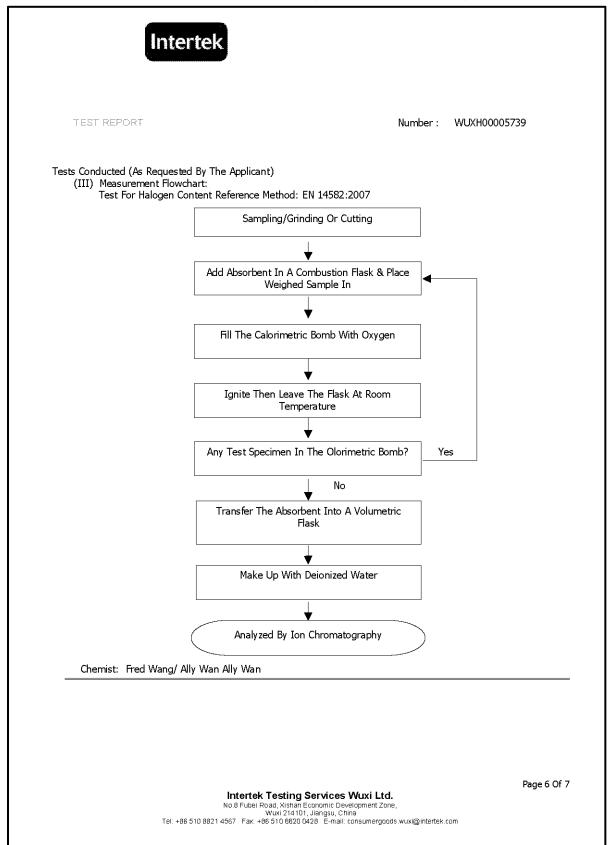


Annex 1: Analysis Result of Molding Compound (Page 5 of 7)

TEST REPORT		Num	per: WUXH00005	739
sts Conducted (As Requested By The	Applicant)			
Halogen Test	, phoney			
(I) Test Result Summary : Halogen Content:				
	esting Item		Result (p	<u>pm)</u>
Fluorine (F) Content			ND 88	
Chlorine (Cl)Content Bromine (Br) Content			88 ND	
Iodine (I) Content			ND	
Remarks : ppm = Parts Per Millior	= mg/kg			
ND = Not Detected				
Date Sample Received: Aug 01, 20 Testing Period: Aug 01, 2011 To	11 Aug 05, 2011			
(II) Test Method :				Demark
Testing Item		Testing Method		Reporti Limit
Halogen (F,Cl, Br,I) Content	With Reference EN 14 Calorimetric Bomb And			50 ppr
Remarks : Reporting Limit = Quar	titation Limit Of Analyte	In Sample		
				Page 5 4
	Intertek Testing Servio	ces Wuxi Ltd.		Page 5 (
	Intertek Testing Servio u.a Fubei Road, Xishan Economi Wuki 214101, Janga	c Development Zone,		Page 5 (

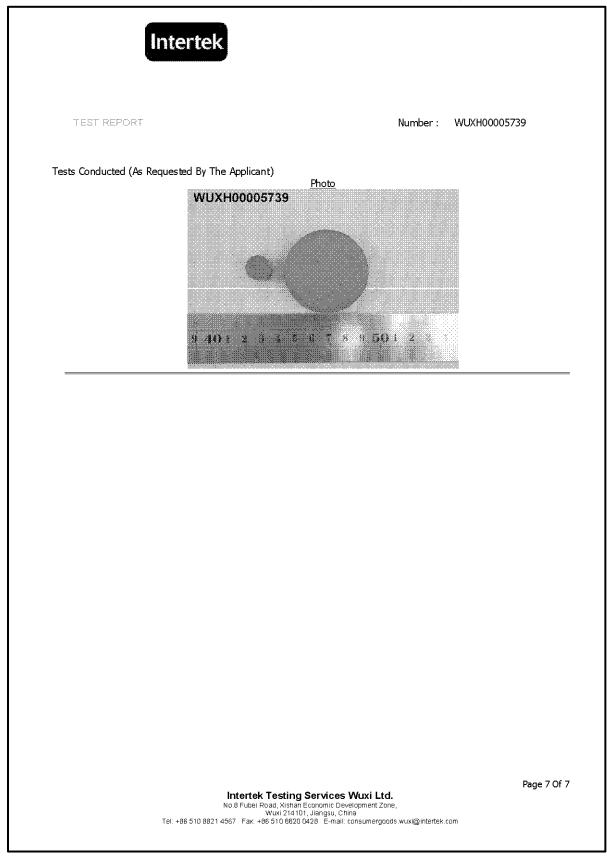


Annex 1: Analysis Result of Molding Compound (Page 6 of 7)





Annex 1: Analysis Result of Molding Compound (Page 7 of 7)





Annex 2: Analysis Result of Lead frame (Page 1 of 4)

	Inte	ertek		
TEST REF	PDRT		Number :	WUXH00005713
Applicant :	EAST 1#,Z WUXI NATI WUXI,JIAN	SEMICONDUCTOR(WUXI) CO., LTD. HENFA 6 ROAD, SHUO FANG INDUSTRIAL IONAL HIGH-TECH DEVELOPMENT ZONE, IGSU,CHINA ANG XIAOPENG	Date : PARK	Aug 04, 2011
Sample Descrip One (1) Piece Item Name Vendor Component Test Item	e Of Submitted	ed: I Sample Said To Be : Golden Yellow Meta : Lead Frame/Lead Frame Matrix : Jinag Jihlong Technology CO.,L : Copper. : Cd,Pb,Hg,CrVI.	/TO-220 Lead Fran	ne/Heatsink.
Tests Conducted As Requeste		licant, For Details Refer To Attached Pages		
Summary: Tested Sa	ample	<u>Standard</u>		<u>Result</u>
Submitted S	Sample	With Reference To Test Method Of IEC 6 1.0: 2008 And Maximum Concentration L From RoHS Directives 2002/95/EC And A 2005/618/EC	imits Quoted	PASS
Prepared And C For Intertek Tes Jeannia Jessica Lu General Manage	sting Services ^v	Wuxi Ltd.		

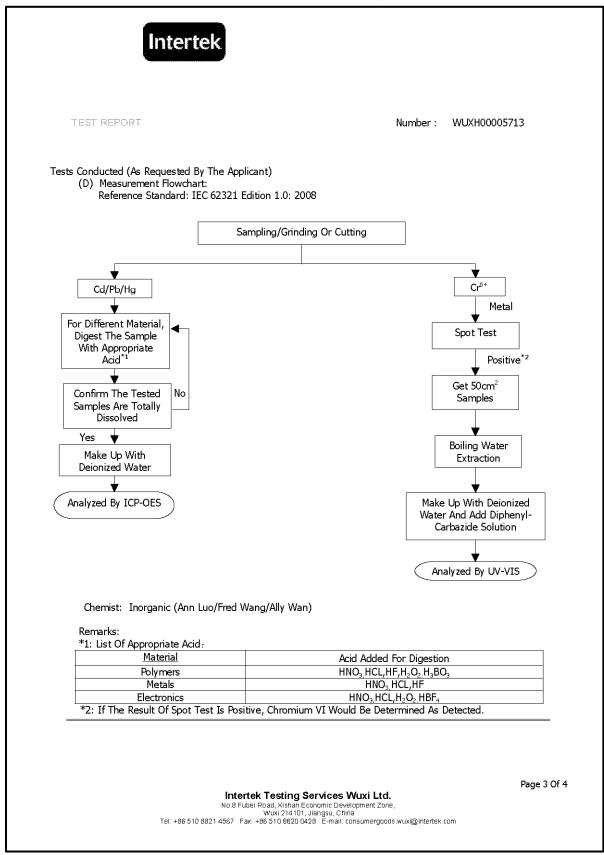


Annex 2: Analysis Result of Lead frame (Page 2 of 4)

ts Conducted (As Requested By	y The Applicant)		
RoHS Directives Test (A) Test Result Summary:			
Testing Item		R	esult
Cadmium (Cd) Content (mg/k Lead (Pb) Content (mg/kg)	(g)		ND 20
Mercury (Hg) Content (mg/kg)		ND
Chromium (VI)(Cr ⁶⁺) Result Metal) (mg/kg With 50cm ²)	(By Boiling Water Extraction On		N
Mercury (Hg) Chromium (VI) (Cr ⁶⁺) The Above Limits Were Quote (C) Test Method:	ed From 2002/95/EC And Amendment 20	0.1% (: 0.1% (:	1000 mg/kg) 1000 mg/kg) 1000 mg/kg) mogeneous Materi
Testing Item	Testing Method		Reporting Lim
Cadmium (Cd)Content	With Reference To IEC 62321 Edition 1 Digestion And Determined By ICP-OES	0: 2008, By Acid	2 mg/kg
	With Reference To IEC 62321 Edition 1	0: 2008, By Acid	2 mg/kg
Lead (Pb)Content	Digestion And Determined By ICP-OES		
	With Reference To IEC 62321 Edition 1 Digestion And Determined By ICP-OES		2 mg/kg
Lead (Pb)Content Mercury (Hg)Content Chromium (VI) (Cr ⁶⁺) Content	With Reference To IEC 62321 Edition 1 Digestion And Determined By ICP-OES With Reference To IEC 62321 Edition 1	0: 2008, By	0.02mg/kg_With
Lead (Pb)Content Mercury (Hg)Content	With Reference To IEC 62321 Edition 1 Digestion And Determined By ICP-OES	0: 2008, By	2 mg/kg 0.02mg/kg With 50cm ² (In Testing Solutio



Annex 2: Analysis Result of Lead frame (Page 3 of 4)





Annex 2: Analysis Result of Lead frame (Page 4 of 4)

In	tertek	
TEST REPORT	Number :	WUXH00005713
Tests Conducted (As Requ	uested By The Applicant) Photo WUXH00005713 Automatical Applicant (Automatical Applicant) Automatical Applicant (Au	
	Intertek Testing Services Wuxi Ltd. No.9 Fubel Road, Xistan Economic Development Zone, Wuxi 214101, Jiangsu, China Ei: +88 510 8821 44567 Test: +86 510 8821 0428 E-mail: consumergoads.wuxi@intertek.c	Page 4 Of 4



Annex 3: Analysis Result of Clip (Page 1 of 5)

TEST RE				
t han said it it for hand	PDRT		Number : Wl	JXH00005729S1
Applicant :	EAST 1#,ZHE			g 12, 2011 IPERSEDE REPORT 05729 DATED
One (1) Pier Item Name Vendor Component Test Item Tests Conducte	: Or Part No.	mple Said To Be : Golden Yellow Metal. : Clip. : G-SHANK Precision Machinery (Suzł : Copper. : Cd,Pb,Hg,CrVI.	ou)CO., LTD.	
As Request Summary:	ted By The Applica	nt, For Details Refer To Attached Pages		
Tes Subi	s ted Sample mitted Sample	<u>Standard</u> With Reference To Test Method Of IEC 1.0: 2008 And Maximum Concentration From RoHS Directives 2002/95/EC And 2005/618/EC	Limits Quoted	<u>Result</u> PASS
Prepared And For Intertek Te	Checked By: esting Services Wu	xi Ltd.		
	esting Services Wu	xi Ltd.		

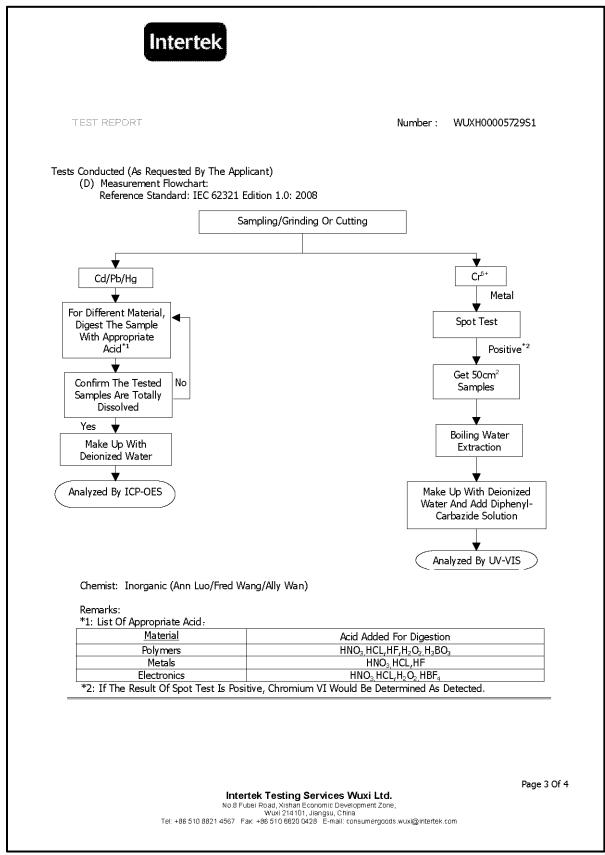


Annex 3: Analysis Result of Clip (Page 2 of 5)

		Number	WUXH00005729
Conducted (As Request	ed By The Applicant)		
OHS Directives Test			
(A) Test Result Summa	ry:		Desult
Testing Item	/ / / \		Result
Cadmium (Cd) Content Lead (Pb) Content (mg/			ND ND
Mercury (Hg) Content (I	ng/kg)		ND
Chromium (VI)(Cr ⁶⁺) Re Metal) (mg/kg With 50c	esult (By Boiling Water Extraction On m ²)		Ν
Remark: mg/kg = Milligram Per K	ilogram = ppm		
	lligram = ppm lligram Per Kilogram With 50 Square Cen	timeter	
ND = Not Detected			
N=Negative			
(B)RoHS Requirement:			
	tricted Substances		Limits
Cadmium (Cd)			(100 mg/kg)
Lead (Pb) Mercury (Hg)			(1000 mg/kg) (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)			(1000 mg/kg)
	Quoted From 2002/95/EC And Amendm		
Material.			
(C) Test Method:			
Testing Item	Testing Method		Reporting Limi
	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC		2 mg/kg
Cadmium (Cd)Content			
Cadmium (Cd)Content .ead (Pb)Content	With Reference To IEC 62321 Edition		2 mg/kg
	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition Acid Digestion And Determined By IC	CP-OES n 1.0: 2008, By CP-OES	2 mg/kg 2 mg/kg
ead (Pb)Content fercury (Hg)Content	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition	СР-ОЕS n 1.0: 2008, Ву СР-ОЕS n 1.0: 2008, Ву	2 mg/kg 0.02mg/kg With
ead (Pb)Content	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition Boiling Water Extraction And Determ	СР-ОЕS n 1.0: 2008, Ву СР-ОЕS n 1.0: 2008, Ву	2 mg/kg 0.02mg/kg With 50cm ²
ead (Pb)Content Mercury (Hg)Content Chromium (VI) (Cr ⁶⁺)	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition	СР-ОЕS n 1.0: 2008, Ву СР-ОЕS n 1.0: 2008, Ву	2 mg/kg 0.02mg/kg With
ead (Pb)Content Mercury (Hg)Content Chromium (VI) (Cr ⁶⁺)	With Reference To IEC 62321 Edition Acid Digestion And Determined By IG With Reference To IEC 62321 Edition Acid Digestion And Determined By IG With Reference To IEC 62321 Edition Boiling Water Extraction And Determ Spectrophotometer Aug 01, 2011	СР-ОЕS n 1.0: 2008, Ву СР-ОЕS n 1.0: 2008, Ву	2 mg/kg 0.02mg/kg With 50cm ²



Annex 3: Analysis Result of Clip (Page 3 of 5)





Annex 3: Analysis Result of Clip (Page 4 of 5)

	ntertek		
	Refer		
TEST REPORT		Number :	WUXH00005729S1
Tests Conducted (As Rec	uested By The Applicant)		
	<u>Pho</u> WUXH00005729	<u>o</u>	
	R E IVIA	P. Sector	
	a : 4 0 40 <u>1 * 8 . 6 a</u>		

	Intertak Tacting Ser	wiese Wuvilte	Page 4 Of 4
	Intertek Testing Ser No.8 Fubel Road, Xishan Econ Wuxi 214101, Jia Tel: +86 510 8821 4567 Fax: +86 510 8820 0428	omic Development Zone, ngsu, China	~
	те, навірти вадті 4567 і нах: н86 510 8820 0428	⊏-man: consumergoods.wuxi@intertek.d	um



Annex 3: Analysis Result of Clip (Page 5 of 5)

	Intertek	
To :		
Attention :	CONCORD SEMICONDUCTOR(WUXI) CO., LTD. ZHANG XIAOPENG Date : Aug 12, 2011	
Re :	Report Revision Notification	
	Labtest Report Number WUXH00005729 date AUG 04, 2011	
	nformed that all the content recorded in the above captioned report will be void. This captioned report eded by a revised Labtest Report, Number WUXH00005729S1 , issued on Aug 12, 2011 .	is
Thank you '	for your attention	
Prepared A	nd Checked By:	
	k Testing Services Wuxi Ltd.	
Jean	i ca	
∕⁄ Jessica Lu		
General Mai	nager	
	Intertek Testing Services Wuxi Ltd.	
	Intertek Testing Services Wuxi Ltd. No.8 Fubel Road, Xiehan Economic Development Zone, Www1214101, Mangsu, China 無錫天祥質量技術服務有限公司	



Annex 4: Analysis Result of Matte-Tin plating (page 1 of 4)

	Intertek			
TEST REF	DRT		Number :	WUXH00005709
Annianati			Data i	Aur 04 2011
Applicant :	CONCORD SEMICONDUCTOR(WU EAST 1#,ZHENFA 6 ROAD, SHUC) FANG	Date :	Aug 04, 2011
	INDUSTRIAL PARK WUXI NATIO DEVELOPMENT ZONE, WUXI, JIA	NAL HIGH-TECH		
	Attn : ZHANG XIAOPENG	NG50,CHINA		
Sample Descrip	ion As Declared:			
One (1) Piec	Of Submitted Sample Said To Be : B	lack Plastic With S	ilvery Metal Pin.	
Item Name Vendor	: Tin Plating- : Bandl (Kuns	-รмม. shan) International C	ò.,.	
Component Test Item)r Part No. : Pure Matte	Tin.		
Tests Conducte	: Cd,Pb,Hg,C			
	d By The Applicant, For Details Refe	r To Attached Pages		
Prepared And C	recked By:			
Prepared And C For Intertek Tex	necked By: ting Services Wuxi Ltd.			
For Intertek Te				
For Intertek Te				
For Intertek Tes Junia				
For Intertek Tes Jeannia Jessica Lu	ting Services Wuxi Ltd.			
For Intertek Tes Junia	ting Services Wuxi Ltd.			
For Intertek Tes Jeannia Jessica Lu	ting Services Wuxi Ltd.			
For Intertek Tes Jeannia Jessica Lu	ting Services Wuxi Ltd. r			Page 1 Of
For Intertek Tes Jeannia Jessica Lu	ting Services Wuxi Ltd. r Intertek Tes	ting Services Wuxi	Ltd.	Page 1 Of
For Intertek Tes Jeannia Jessica Lu	ting Services Wuxi Ltd. r Intertek Tes Noß Fuber Road, 3	Xishan Economic Developme 214101, Jiangsu, China	nt Zone,	-

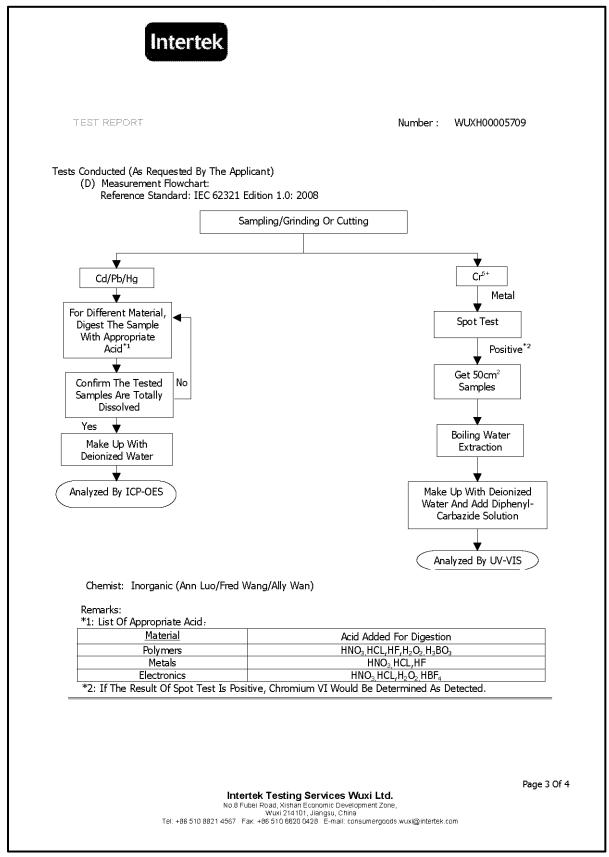


Annex 4: Analysis Result of Matte-Tin plating (page 2 of 4)

		Number	: WUXH00005709
s Conducted (As Requeste	d By The Applicant)		
RoHS Directives Test (A) Test Result Summar			
	·		Result
Testing Item			(1)
Cadmium (Cd) Content (ND
Lead (Pb) Content (mg/k Mercury (Hg) Content (n	(g)/Plating		29 ND
Chromium (VI)(Cr ⁶⁺) Res	sult (By Boiling Water Extraction On		
Metal) (mg/kg With 50cr			N
Tested Component: (1) Metal Pin Plating. (B)RoHS Requirement:	ricted Substances		limite
Cadmium (Cd)	ricted Substances	0.019/	Limits (100 mg/kg)
Lead (Pb)			(100 mg/kg)
Mercury (Hg)			(1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)			(1000 mg/kg)
Material. (C) Test Method:	Quoted From 2002/95/EC And Amendme	SHT 2003/010/EC	
<u>Testing Item</u>	Testing Method		<u>Reporting Limit</u>
	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC	P-OES	2 mg/kg
Cadmium (Cd)Content	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC	P-OES	2 mg/kg
Cadmium (Cd)Content Lead (Pb)Content			2 mg/kg
	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC		0.02mg/kg With
Lead (Pb)Content Mercury (Hg)Content Chromium (VI) (Cr ⁶⁺)	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC With Reference To IEC 62321 Edition	1.0: 2008, By	50 cm ²
Lead (Pb)Content Mercury (Hg)Content	With Reference To IEC 62321 Edition Acid Digestion And Determined By IC	1.0: 2008, By	50cm ² (In Testing Solution)

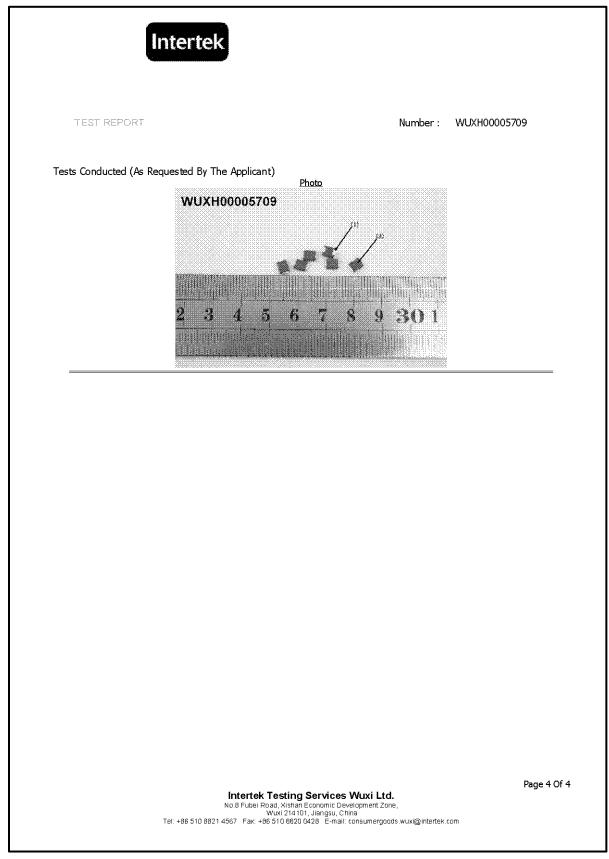


Annex 4: Analysis Result of Matte-Tin plating (page 3 of 4)





Annex 4: Analysis Result of Matte-Tin plating (page 4 of 4)





Annex 5: Analysis Result of Ni-plated Wafer (Page 1 of 5)

	Intertel	<			
	1 , year, 1999, 1999			NL L	
TEST REF				Number :	WUXH00005703
Applicant :	CONCORD SEMICO	NDUCTOR(WUXI) CO.,	LTD.	Date :	Aug 04, 2011
	EAST 1#,ZHENFA	6 ROAD, SHUO FANG			,
		WUXI NATIONAL HIGH			
	Attn ZHANG XIA	OPENG			
Sample Descrip	tion As Declared:				
One (1) Piec	e Of Submitted Sample	Said To Be : Silvery G	rey Metal.		
Item Name		: Silicon Wafer With N	lickel Plating.		
Vendor Component	Or Part No.	: Concord. : Silicon+Nickel.			
Test Item		: Cd,Pb,Hg,CrVI,PBBs	,PBDEs.		
Remark		: As Requested By Th	e Applicant, Test	ed As A Whole	e And Sampled Randor
Tests Conducte		or Dotailo Pofor To Atta	chod Pagas		
As kequeste	u by the Applicant, H	or Details Refer To Atta	ched rages		
	hecked By: sting Services Wuxi Lta	д.			
For Intertek Te		д.			
For Intertek Te		d.			
For Intertek Te		д.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Lta	д.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Lta	d.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Lta	4.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Lta				Page 1 (
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Lta	Intertek Testing Ser	vices Wuxi Ltd.		Page 1 0
	sting Services Wuxi Lta		omic Development Zone rgsu, China	e,	-



Annex 5: Analysis Result of Ni-plated Wafer (Page 2 of 5)

EST REPORT	Number : WUXH00005703
Conducted (As Requested By The Applicant)	
RoHS Directives Test	
(A) Test Result Summary:	Result
Testing Item Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	48
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI) (Cr ⁶⁺) Content (mg/kg)(For Non-Metal)	ND
Polybrominated Biphenyls (PBBs)(mg/kg)	
Monobrominated Biphenyls (MonoBB)	ND
Dibrominated Biphenyls (DiBB)	ND
Tribrominated Biphenyls (TriBB)	ND
Tetrabrominated Biphenyls (TetraBB)	ND
Pentabrominated Biphenyls (PentaBB)	ND
Hexabrominated Biphenyls (HexaBB)	ND
Heptabrominated Biphenyls (HeptaBB)	ND
Octabrominated Biphenyls (OctaBB)	ND
Nonabrominated Biphenyls (NonaBB)	ND
Decabrominated Biphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)	ND
Monobrominated Diphenyl Ethers (MonoBDE)	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND ND
Hexabrominated Diphenyl Ethers (HexaBDE) Heptabrominated Diphenyl Ethers (HeptaBDE)	ND ND
Octabrominated Diphenyl Ethers (Detable)	ND ND
Nonabrominated Diphenyl Ethers (NonaBDE)	ND
Decabrominated Diphenyl Ether (DecaBDE)	ND
	U
Remark:	
mg/kg = Milligram Per Kilogram = ppm	
ND = Not Detected	
	Pag
Intertek Testing Services W No.8 Fubel Road, Xishan Economic Devel	

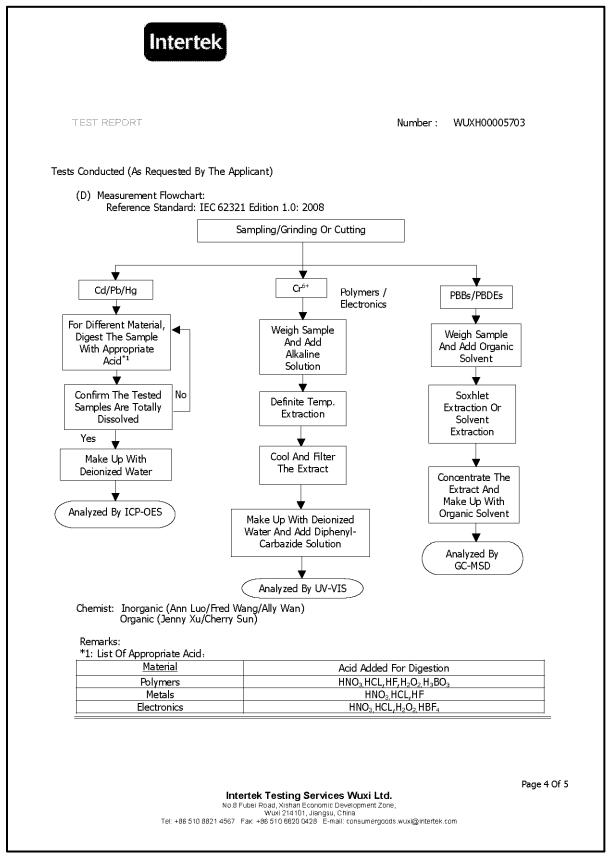


Annex 5: Analysis Result of Ni-plated Wafer (Page 3 of 5)

EST REPORT		Number :	WUXH00005703
Conducted (As Requested I	By The Applicant)		
(B)RoHS Requirement:	by the Applicanty		
Restricted Substances			Limits
Cadmium (Cd)			o (100 mg/kg)
Lead (Pb)			(1000 mg/kg)
Mercury (Hg) Chromium (VI) (Cr ⁶⁺)			(1000 mg/kg) (1000 mg/kg)
Polybrominated Biphenyls	(PBBs)		(1000 mg/kg)
Polybrominated Diphenyl			(1000 mg/kg)
2005/618/EC For Homoger (C) Test Method:	oted From 2002/95/EC And Amendment neous Material.		1
<u>Testing Item</u>	Testing Method		Reporting Limit
Cadmium (Cd)Content	With Reference To IEC 62321 Edition Acid Digestion And Determined By ICI	P-OES	2 mg/kg
Lead (Pb)Content	With Reference To IEC 62321 Edition Acid Digestion And Determined By ICI With Reference To IEC 62321 Edition	P-OES	2 mg/kg
Mercury (Hg)Content	Acid Digestion And Determined By ICI With Reference To IEC 62321 Edition	P-OES	2 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Non-Metal)	Alkaline Digestion And Determined By Spectrophotometer	UV-VIS	1 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With Reference To IEC IEC 62321 Edi By Solvent Extraction And Determined Further HPLC Confirmation When Nec	l By GC/MS And	5 mg/kg
Date Sample Received: Au Testing Period: Aug 01, 20	ıg 01, 2011	•	



Annex 5: Analysis Result of Ni-plated Wafer (Page 4 of 5)





Annex 5: Analysis Result of Ni-plated Wafer (Page 5 of 5)

(Intertek		
TEST REPORT		Number :	WUXH00005703
Tests Conducted (As R	equested By The Applicant)		
		Phote	
	Intertek Testin No.8 Fubel Road, Xish Wuxi 214 Tel: +86 510 88214567 Fax: +86 510 882	g Services Wuxi Ltd. In Economic Development Zone, 101, Jiangay, China 10 0428 E-mail: consumergoods.wuxi@intertek.c	Page 5 Of 5



Annex 6: Analysis Result of Passivation Glass (Page 1 of 7)

TEST REP	DRT		Number :	WUXH00005704
Applicant :	EAST 1#,ZHE INDUSTRIAL	MICONDUCTOR(WUXI) CO., LTD. NFA 6 ROAD, SHUO FANG PARK WUXI NATIONAL HIGH-TECH IT ZONE, WUXI,JIANGSU,CHINA G XIAOPENG	Date :	Aug 05, 2011
Sample Descript One (1) Piece Item Name Vendor Component C Test Item	Of Submitted Sa	Imple Said To Be : White Power. : Wafer Passiwation. : Propriety. : Propriety. : Cd,Pb,Hg,CrVI,PBBs,PBDEs,F,Cl,Br,	I.	
Tests Conducted As Requested		nt, For Details Refer To Attached Pages		
Durgened And C				
Prepared And Ct For Intertek Tes		ıxi Ltd.		
	ting Services Wu	ıxi Ltd.		



Annex 6: Analysis Result of Passivation Glass (Page 2 of 7)

	Number : WUXH00005704
Conducted (As Requested By The Applicant)	
RoHS Directives Test	
(A) Test Result Summary:	–
Testing Item	Result
Cadmium (Cd) Content (mg/kg)	ND 185100
Lead (Pb) Content (mg/kg) Mercury (Hg) Content (mg/kg)	185100 ND
Mercury (ng) Content (mg/kg) Chromium (VI) (Cr ⁶⁺) Content (mg/kg)(For Non-Metal)	ND
Polybrominated Biphenyls (PBBs)(mg/kg)	
Monobrominated Biphenyls (MonoBB)	ND
Dibrominated Biphenyls (DiBB)	ND
Tribrominated Biphenyls (TriBB)	ND
Tetrabrominated Biphenyls (TetraBB)	ND
Pentabrominated Biphenyls (PentaBB)	ND
Hexabrominated Biphenyls (HexaBB)	ND
Heptabrominated Biphenyls (HeptaBB)	ND
Octabrominated Biphenyls (OctaBB) Nonabrominated Biphenyls (NonaBB)	ND
Decabrominated Biphenyl (DecaBB)	ND ND
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)	ND ND
Monobrominated Diphenyl Ethers (MonoBDE)	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND
Hexabrominated Diphenyl Ethers (HexaBDE)	ND
Heptabrominated Diphenyl Ethers (HeptaBDE)	ND ND
Octabrominated Diphenyl Ethers (OctaBDE)	ND
Nonabrominated Diphenyl Ethers (NonaBDE) Decabrominated Diphenyl Ether (DecaBDE)	ND ND
	ND
Remark: mg/kg = Milligram Per Kilogram = ppm	
ND = Not Detected	
#=The Result Is For Reference Only.	
	F

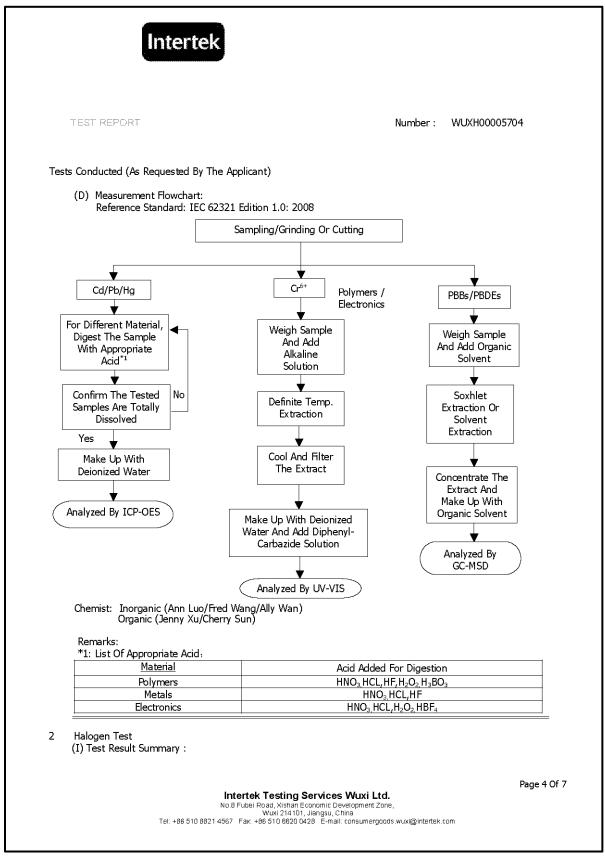


Annex 6: Analysis Result of Passivation Glass (Page 3 of 7)

Conducted (As Requested By The Applicant) (B)RoHS Requirement: Restricted Substances Limits Cadmium (Cd) 0.01% (100 mg/kg) Lead (Pb) 0.1% (1000 mg/kg) Mercury (Hg) 0.1% (1000 mg/kg) Chromium (VI) (Cr ⁵⁺) 0.1% (1000 mg/kg) Polybrominated Biphenyls (PBBs) 0.1% (1000 mg/kg) Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Method Reporting Lim Cedarium (Cd)Created With Reference To IEC 62321 Edition 1.0: 2008, By 2 mg/kg
Restricted Substances Limits Cadmium (Cd) 0.01% (100 mg/kg) Lead (Pb) 0.1% (1000 mg/kg) Mercury (Hg) 0.1% (1000 mg/kg) Chromium (VI) (Cr ⁶⁺) 0.1% (1000 mg/kg) Polybrominated Biphenyls (PBBs) 0.1% (1000 mg/kg) Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Method Reporting Lim With Pofermere To LEC 62321 Edition 1.0: 2008. By With Pofermere To LEC 62321 Edition 1.0: 2008. By
Cadmium (Cd) 0.01% (100 mg/kg) Lead (Pb) 0.1% (1000 mg/kg) Mercury (Hg) 0.1% (1000 mg/kg) Chromium (VI) (Cr ^{β+}) 0.1% (1000 mg/kg) Polybrominated Biphenyls (PBBs) 0.1% (1000 mg/kg) Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Method Reporting Lim With Pofermere To LEC 62321 Edition 1.0: 2008. By With Pofermere To LEC 62321 Edition 1.0: 2008. By
Lead (Pb) 0.1% (1000 mg/kg) Mercury (Hg) 0.1% (1000 mg/kg) Chromium (VI) (Cr ⁵⁺) 0.1% (1000 mg/kg) Polybrominated Biphenyls (PBBs) 0.1% (1000 mg/kg) Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Method Reporting Lim With Poferance To LEC 62321 Edition 1.0: 2008 By With Poferance To LEC 62321 Edition 1.0: 2008 By
Chromium (VI) (Cr ⁶⁺) 0.1% (1000 mg/kg) Polybrominated Biphenyls (PBBs) 0.1% (1000 mg/kg) Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 0.1% (1000 mg/kg) CO Test Method: Testing Method With Reference To LEC 62321 Edition 1.0: 2008 By
Polybrominated Biphenyls (PBBs) 0.1% (1000 mg/kg) Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 0.1% (1000 mg/kg) 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Method With Pofemere To LEC 62321 Edition 1.0: 2008 By
Polybrominated Diphenyl Ethers (PBDEs) 0.1% (1000 mg/kg) The Above Limits Were Quoted From 2002/95/EC And Amendment 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Item Testing Method With Reference To LEC 62321 Edition 1.0: 2008 By
The Above Limits Were Quoted From 2002/95/EC And Amendment 2005/618/EC For Homogeneous Material. (C) Test Method: Testing Item Testing Method Reporting Lim With Reference To LEC 62321 Edition 1.0: 2008. By
Testing Item Testing Method Reporting Lin
With Pofeman To JEC 62321 Edition 1.0: 2008 By
Acid Digestion And Determined By ICP-OES
Lead (Pb)Content With Reference To IEC 62321 Edition 1.0: 2008, By Acid Digestion And Determined By ICP-OES 2 mg/kg
Mercury (Hg)Content With Reference To IEC 62321 Edition 1.0: 2008, By Acid Digestion And Determined By ICP-OES 2 mg/kg Charactives (JG) (Cast) With Reference To IEC 62321 Edition 1.0: 2008, By 2
Content (For Non-Metal) Alkaline Digestion And Determined By UV-VIS 1 mg/kg Spectrophotometer 1
Polybrominated Biphenyls With Reference To IEC IEC 62321 Edition 1.0: 2008, (PBBs)& Polybrominated By Solvent Extraction And Determined By GC/MS And Further HPLC Confirmation When Necessary. 5 mg/kg
Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 04, 2011



Annex 6: Analysis Result of Passivation Glass (Page 4 of 7)



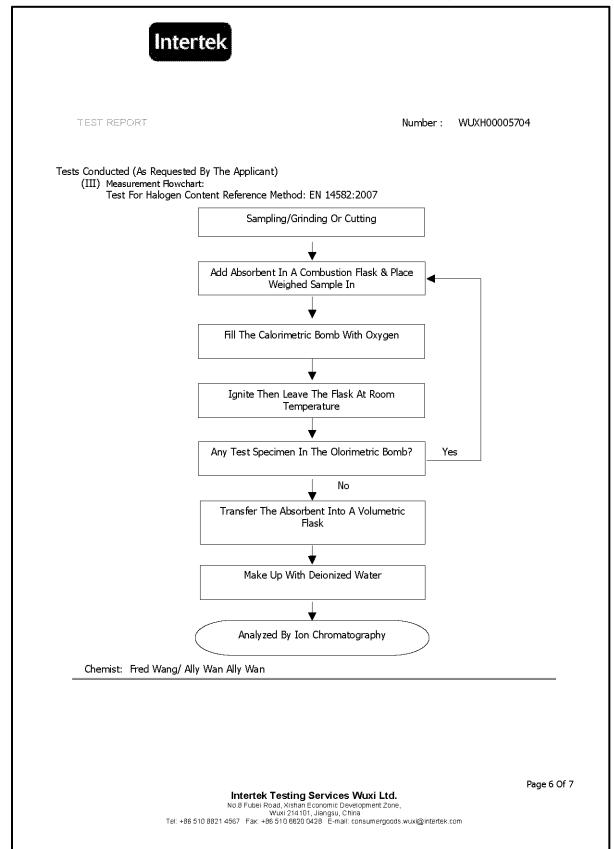


Annex 6: Analysis Result of Passivation Glass (Page 5 of 7)

Item Herein Workhousport Halogen Content: Item Result (ppm) Fluorine (F) Content ND Chlorine (Cl)Content ND Bromine (Br) Content ND Identity ND Remarks : ppm = Parts Per Million = mg/kg ND ND = Not Detected ND Date Sample Received: Aug 01, 2011 Testing Method (II) Test Method : Itesting Item Testing Item Vith Reference To EN 14582:2007 By Combustion In A Calorimetric Bornb And Determined By Ion Chromatography Halogen (F, G, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bornb And Determined By Ion Chromatography So ppn Remarks : Reporting Limit = Quantitation Limit Of Analyte In Sample	TEST REPORT		Number : WUXH00	005704
Halogen Content: Testing Item Result (ppm) Fluorine (F) Content ND Chlorine (Cl)Content ND Bromine (Br) Content ND Iodine (I) Content ND Remarks : ppm = Parts Per Million = mg/kg ND = Not Detected ND Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 (II) Test Method : Image: Testing Item Testing Method Reporting Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography 50 ppr			Number: WOXHOU	003704
Fluorine (F) Content ND Chlorine (Cl)Content ND Bromine (Br) Content ND Iodine (I) Content ND Iodine (I) Content ND Remarks : ppm = Parts Per Million = mg/kg ND ND = Not Detected ND Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 (II) Test Method :		Applicant)		
Chlorine (Cl)Content ND Bromine (Br) Content ND Iodine (I) Content ND Remarks : ppm = Parts Per Million = mg/kg ND = Not Detected ND Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 Reporting (II) Test Method : Testing Method Reporting Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography 50 ppr	Ī	Festing Item	Resul	t (ppm)
Bromine (Br) Content ND Iodine (I) Content ND Remarks : ppm = Parts Per Million = mg/kg ND = Not Detected ND ND Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 Image: Content				ND
Iodine (I) Content ND Remarks : ppm = Parts Per Million = mg/kg ND = Not Detected mg/kg ND = Not Detected mg/kg ND = Not Detected Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 mg/kg State Sample Received: Aug 01, 2011 To Aug 05, 2011 (II) Test Method : mg/kg mg/kg Image: Testing Item Testing Method Reporting Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography 50 ppr				
Remarks : ppm = Parts Per Million = mg/kg ND = Not Detected Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 (II) Test Method : <u>Testing Item</u> Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography				
ND = Not Detected Date Sample Received: Aug 01, 2011 Testing Period: Aug 01, 2011 To Aug 05, 2011 (II) Test Method : Testing Item Reporting Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography 50 ppr	Iodine (I) Content			ND
Testing Item Testing Method Reporting Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography 50 ppr	ND = Not Detected Date Sample Received: Aug 01, 20	011		
Halogen (F, Cl, Br, I) Content With Reference To EN 14582:2007 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography 50 ppr		Tacting Mother	4	Poporting
Calorimetric Bomb And Determined By Ion Chromatography				
Remarks : Reporting Limit = Quantitation Limit Of Analyte In Sample				50 ppr



Annex 6: Analysis Result of Passivation Glass (Page 6 of 7)





Annex 6: Analysis Result of Passivation Glass (Page 7 of 7)

	ntertek	
TEST REPORT	Number :	WUXH00005704
Tests Conducted (As Re	subset	
	Intertek Testing Services Wuxi Ltd. No.8 Fubel Road, Xishan Economic Development Zone, Wuxi 214101, Jiangsu, China Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.cc	Page 7 Of 7



Annex 7: Analysis Result of Die Bonding Solder (Page 1 of 8)

	Intertek			
		•		
TEST RE	PORT		Number :	WUXH00005720S1
Applicant :	EAST 1#,ZHENFA 6 INDUSTRIAL PARK V	WUXI NATIONAL HIGH-TECH IE, WUXI,JIANGSU,CHINA		Aug 12, 2011 O SUPERSEDE REPORT 100005720 DATED 1011
Sample Descrip	tion As Declared:			
Item Name Vendor	Or Part No.	Said To Be : Gray Paste. : Solder Paste. : Heraeus Materials Technolog : F367SN10-90Pb. : Cd,Pb,Hg,CrVI,PBBs,PBDEs,F		
Tests Conducte	ed:			
As Request	ed By The Applicant, For	⁻ Details Refer To Attached Pag	es	
Prepared And				
	Checked By: sting Services Wuxi Ltd.			
For Intertek Te	sting Services Wuxi Ltd.			
For Intertek Te	sting Services Wuxi Ltd.			
For Intertek Te	sting Services Wuxi Ltd.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Ltd.			
For Intertek Te	sting Services Wuxi Ltd.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Ltd.			
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Ltd.			Dage 1 (
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Ltd. er	Intertek Testing Services W	JXi Ltd.	Page 1 0
For Intertek Te Jeannia Jessica Lu	sting Services Wuxi Ltd. er			Page 1 O



Annex 7: Analysis Result of Die Bonding Solder (Page 2 of 8)

Conducted (As Requested By The Applicant) RoHS Directives Test (A) Test Result Summary: Testing Item Result Cadmium (Cd) Content (mg/kg) 912000 Lead (Pb) Content (mg/kg) ND Chromium (VI) (Cr ²⁺) Content (mg/kg)(For Non-Metal) ND Polybrominated Biphenyls (PBBs)(mg/kg) ND Monobrominated Biphenyls (MonoBB) ND Dibrominated Biphenyls (TriaB) ND Tetrabrominated Biphenyls (TeraBB) ND Pentabrominated Biphenyls (PentaBB) ND Pentabrominated Biphenyls (PentaBB) ND Pentabrominated Biphenyls (NonaBB) ND Decabrominated Biphenyls (NonaBB) ND Doctabrominated Biphenyls (NonaBB) ND Doctabrominated Biphenyls (NonaBB) ND Doctabrominated Diphenyl Ethers (MonoBDE) ND Dibrominated Diphenyl Ethers (NonaBD) ND Dibrominated Diphenyl Ethers (NonBDE) ND	RoHS Directives Test Result (A) Test Result Summary: Result Cadmium (Cd) Content (mg/kg) ND Lead (Pb) Content (mg/kg) ND Chromium (VI) (Cf ⁺) Content (mg/kg)(For Non-Metal) ND Polybrominated Biphenyls (PBBs)(mg/kg) Monobrominated Biphenyls (Mono BB) ND Dibrominated Biphenyls (TriBB) ND ND Testabrominated Biphenyls (TetraBB) ND ND Pentabrominated Biphenyls (TetraBB) ND ND Pentabrominated Biphenyls (HexaBB) ND ND Pentabrominated Biphenyls (HexaBB) ND ND Octabrominated Biphenyls (NonaBB) ND ND Nonabrominated Biphenyls (NonaBB) ND ND Decabrominated Diphenyl Ethers (MonoBDE) ND ND Dibrominated Diphenyl Ethers (PBDES)(mg/kg) MD ND Monobrominated Diphenyl Ethers (TetraBDE) ND ND Dibrominated Diphenyl Ethers (TetraBDE) ND <td< th=""><th>TEST REPORT</th><th>Number : WUXH00005720S1</th></td<>	TEST REPORT	Number : WUXH00005720S1
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	5	Intertek Testing Services	Wuxi Ltd.
Pa Intertek Tecting Services Wuwi Ltd		INTERTEK LESTING SERVICES No.8 Fubei Road, Xishan Economic De	YYUAI LLU.

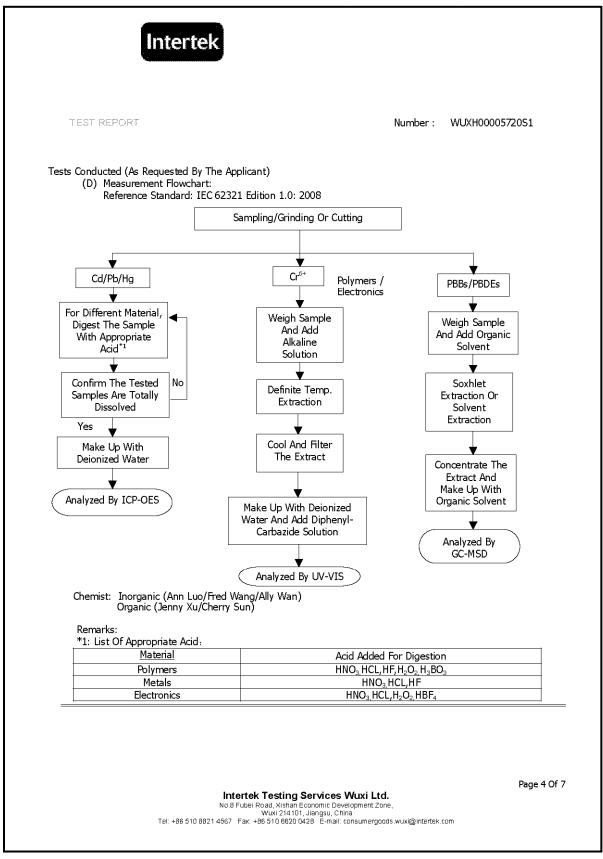


Annex 7: Analysis Result of Die Bonding Solder (Page 3 of 8)

TEST REPORT		Number: W	UXH00005720S1
		Number. W	0/110000372031
s Conducted (As Requested B (B)RoHS Requirement:	y The Applicant)		
	cted Substances		imits
Cadmium (Cd)			[100 mg/kg)
Lead (Pb)			.000 mg/kg)
Mercury (Hg)			.000 mg/kg)
Chromium (VI) (Cr ⁶⁺) Polybrominated Biphenyls (Pl	BBc)		.000 mg/kg) .000 mg/kg)
Polybrominated Diphenyls (Pl			.000 mg/kg) .000 mg/kg)
	ed From 2002/95/EC And Amendment 200		
(C) Test Method:			
<u>Testing Item</u>	<u>Testing Method</u>		<u>Reporting Lin</u>
Cadmium (Cd)Content	With Reference To IEC 62321 Edition 1.0 Digestion And Determined By ICP-OES		2 mg/kg
Lead (Pb)Content	With Reference To IEC 62321 Edition 1.0 Digestion And Determined By ICP-OES		2 mg/kg
Mercury (Hg)Content	With Reference To IEC 62321 Edition 1.0 Digestion And Determined By ICP-OES		2 mg/kg
Chromium (VI) (Cr ⁶⁺) Content (For Non-Metal)	With Reference To IEC 62321 Edition 1.0 Alkaline Digestion And Determined By U ¹ Spectrophotometer		1 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With Reference To IEC 62321 Edition 1.0 Solvent Extraction And Determined By G Further HPLC Confirmation When Necess	C-MSD And	5 mg/kg
Date Sample Received: Aug 0 Testing Period: Aug 01, 2011			



Annex 7: Analysis Result of Die Bonding Solder (Page 4 of 8)



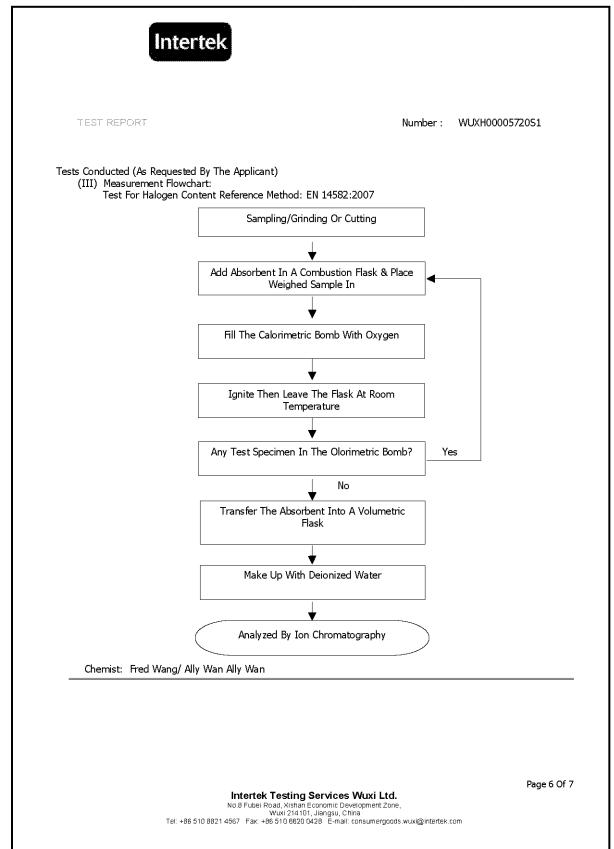


Annex 7: Analysis Result of Die Bonding Solder (Page 5 of 8)

TEST REPORT		Numb	er : WUXH00005	72051
Tests Conducted (As Reque	sted By The Applica	nt)		
2 Halogen Test (I) Test Result Summa		,		
Halogen Content:				
Fluorine (F) Content	<u>Testing I</u>	tem	<u>Result (p</u> ND	<u>om)</u>
Chlorine (Cl)Content			ND	
Bromine (Br) Content			ND	
Iodine (I) Content			ND	
Remarks : ppm = Parts	s Per Million = mg/k	g		
ND = Not D	etected			
Date Sample Received Testing Period: Aug 01	: Aug 01, 2011 , 2011 To Aug 05,	2011		
(II) Test Method :				
Testing Iter	<u>n</u>	Testing Method		Report Limi
Halogen (F,Cl, Br,I) Co	With F	eference EN 14582-2007 By Combus	With Reference EN 14582:2007 By Combustion In A	
				50 pp
	Calorir	netric Bomb And Determined By Ion I Limit Of Analyte In Sample		50 pp
	Calorir	metric Bomb And Determined By Ion (50 pp
	Calorir	metric Bomb And Determined By Ion (50 pp



Annex 7: Analysis Result of Die Bonding Solder (Page 6 of 8)





Annex 7: Analysis Result of Die Bonding Solder (Page 7 of 8)

Inte	ertek		
TEST REPORT		Number : WUXH00	00572051
Tests Conducted (As Reques	ted By The Applicant) Photo WUXH00005720 (F-d)7//0-7 (F-d)7/0-7 (F-d)7//0-7 (
Tel: +	Intertek Testing Services Wu No.8 Fubel Road, Xistan Economic Develor Wuxi 214101, Jiangsu, China 86 510 8821 4567 Fax: +86 510 8620 0428 E-mail: cone	⊥xi Ltd. Iment Zone, sumergoods.wuxi@intertek.com	Page 7 Of 7



Annex 7: Analysis Result of Die Bonding Solder (Page 8 of 8)

Intertek	
To : CONCORD SEMICONDUCTOR(WUXI) CO., LTD. Attention : ZHANG XIAOPENG Date : Aug 12,	2011
Re : Report Revision Notification	
Labtest Report Number WUXH00005720 date Aug 05, 2011	
Please be informed that all the content recorded in the above captioned report will be void now superseded by a revised Labtest Report, Number WUXH00005720S1 , issued on Aug	d. This captioned report is 12, 2011 .
Thank you for your attention	
Descended And Charlest Rev	
Prepared And Checked By: For Intertek Testing Services Wuxi Ltd.	
Jeania	
Jessica Lu	
General Manager	
Intertek Testing Services Wuxi Ltd.	
Ho.3 Fubal Road, Xishan Economic Development Zone, Word 214101, Jiangsu, China 無錫天祥質量技術服務有限公司	· · · · · · · · · · · · · · · · · · ·
「アンジント」「日本」の第二人は19月1日) 中国は高米市場場所は政治所で登出市市委部長、市場は第二人は101 Tel:+86 510 2821 4567 Fax:+86 510 5820 0428 E-melt:consumergoods.wuxi@intertek.com	· · · · · · · · · · · · · · · · · · ·



Annex 8: Applicable RoHS exemptions (2011/65/EU Annex III)

Г		of 8 June 1	2011 Ibstances	MENT AND OF THE COUNCIL in electrical and electronic equipment			
THE E EUROF	1.7.2011 EN	Offic	tial Journal	of the European Union L 174	/101		
Havin; Union			,	ANNEX III			
Havinj		Applications es	zempted fi	rom the restriction in Article 4(1)			
Havin; Social	· · · ·						
Havin	l (a)	1.7.2011	13	Official Journal of the Europea	in Union		L 174/103
Acting		-		Exemption	Scope a	nd dates of applicability	
Where	1(b) 1(c)	6	5(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight			
(1)	1 (d)	-	5(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight			
	l (e)		5(c)	Copper alloy containing up to 4 % lead by weight			
(2)	l (f)	7	7(a)	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	J		
	2(a) 2(a)(1)	7	7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for tele- communications			
(3)	2(a)(2)		7(c)-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			
(3)	2(a)(3)			compound			
	2(a)(4)	7	7(c)-11	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher			
(') OJ (?) OJ (?) Pess	2(a)(5) 2(b)	7	7(c)-111	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	may be used in	nuary 2013 and after that date 1 spare parts for EEE placed on ore 1 January 2013	
27 (*) 0)	2(b)(1)	-	3(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	may be used in	nuary 2012 and after that date 1 spare parts for EEE placed on one 1 January 2012	
	2(b)(2)	- 8	8(b)	Cadmium and its compounds in electrical contacts			
	2(b)(3)	9	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			
	2(b)(4)	9	9(Ъ)	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		i spare parts for EEE placed on one 24 September 2010	
		1	I1(b)	Lead used in other than C-press compliant pin connector systems	may be used in	nuary 2013 and after that date spare parts for EEE placed on one 1 January 2013	
		1	2	Lead as a coating material for the thermal conduction module C-ring		spare parts for EEE placed on one 24 September 2010	
		1	3(a)	Lead in white glasses used for optical applications			
		1	3(Ъ)	Cadmium and lead in filter glasses and glasses used for reflectance standards			
		1	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	may be used in	muary 2011 and after that date 1 spare parts for EEE placed on one 1 January 2011	