

**RoHS TEST REPORT**

NO:PZD1306345-R

Date: July 18,2013

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APPLICANT: FANVIL TECHNOLOGY CO., LTD.
ADDRESS: LEVEL 3, BLOCK A, GAOXINQI BUILDING, ANHUA INDUSTRIAL PARK,
QIANJIN 1 ROAD, 35TH DISTRICT, BAO'AN, SHENZHEN, 518101 P.R. CHINA.

MANUFACTURE : FANVIL TECHNOLOGY CO., LTD.
ADDRESS: LEVEL 3, BLOCK A, GAOXINQI BUILDING, ANHUA INDUSTRIAL PARK,
QIANJIN 1 ROAD, 35TH DISTRICT, BAO'AN, SHENZHEN, 518101 P.R. CHINA.

Report on the submitted sample said to be IP PHONE BRAND NAME: N/A MODEL: F52(P)

Test Required: 1)As required by client to determine the Lead,Cadmium,Mercury,Chromium and Bromine content in the submitted sample.

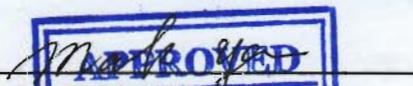
Test Method:

Testing Item	Testing method	Limit
Lead (Pb)	With reference to IEC62321/2 nd CDV (111/95/CDV) ICP-OES	1000ppm
Cadmium (Cd)	With reference to IEC62321/2 nd CDV (111/95/CDV) ICP-OES	100ppm
Mercury (Hg)	With reference to IEC62321/2 nd CDV (111/95/CDV) ICP-OES	1000ppm
Hexavalent Chromium (Cr6+)	With reference to IEC62321/2 nd CDV (111/95/CDV) ICP-VIS	1000ppm
Polybrominated Biphenyls (PBBs)	With reference to IEC62321/2 nd CDV (111/95/CDV) GC-MS	1000ppm
Polybrominated Diphenylethers (PBDEs)	With reference to IEC62321/2 nd CDV (111/95/CDV) GS-MS	1000ppm

Results : Please refer to next pages

Conclusion : When tested as specified,the results shown on the report do not exceed the limit in commission decision of 8 June 2011 Directive 2011/65/EU (RoHS 2) on the restriction of the use of certain hazardous substances in electrical and electronic equipment.All data in this report is provided by the manufacture.

Signed for Shenzhen PZD Technology Co.,Ltd.


Mark Yan Manager
PZD Technology

SHENZHEN PZD TECHNOLOGY CO.,LTD.

Ver 2.0

**RESULT SUMMARY**

Note:

ND=Not Detected ,less than the value of Detection limit

ppm=mg/kg,based on the dry weight of tested sample

	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
1	SOD DIODE	ND	ND	ND	ND	ND	Fulfilled
2	BEAD	ND	ND	ND	ND	ND	Fulfilled
3	MCU IC	---	---	---	---	---	Declaration
4.1	MOSFET IC- LEADFRAME	ND	ND	17	ND	ND	Fulfilled
4.2	MOSFET IC- EPOXY	ND	ND	ND	ND	ND	Fulfilled
4.3	MOSFET IC- MOLD COMPOUND	ND	ND	ND	ND	ND	Fulfilled
4.4	MOSFET IC- PLATING	ND	ND	60	ND	ND	Fulfilled
4.5	MOSFET IC- BONDING WIRE	ND	ND	ND	ND	ND	Fulfilled
5	BEAD	ND	ND	ND	ND	ND	Fulfilled
6	POWER LDO DIODES	---	---	---	---	---	Declaration
7	IC FLASH	---	---	---	---	---	Declaration
8.1.1	IC FLASH-WAFER1	ND	ND	ND	ND	ND	Fulfilled
8.1.2	IC FLASH-WAFER2	ND	ND	ND	ND	ND	Fulfilled
8.2	IC FLASH- GOLD WIRE	ND	ND	ND	ND	ND	Fulfilled
8.3	IC FLASH- GOLD WIRE	ND	ND	ND	ND	ND	Fulfilled
8.4	IC FLASH- MOLD COMPOUND	ND	ND	ND	ND	ND	Fulfilled
8.5	IC FLASH- LEADFRAME	ND	ND	ND	ND	ND	Fulfilled



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	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
8.6	IC FLASH- PLATING	ND	ND	18	ND	ND	Fulfilled
9	CRYSTAL	ND	ND	25	ND	ND	Fulfilled
10.1	INTERNET FILTER-CORE	ND	ND	ND	ND	ND	Fulfilled
10.2	INTERNET FILTER-WINDING QPN	ND	ND	4	ND	ND	Fulfilled
10.3	INTERNET FILTER-FILTER CRUST	ND	ND	11	ND	ND	Fulfilled
10.4	INTERNET FILTER-INK	ND	ND	ND	ND	ND	Fulfilled
10.5	INTERNET FILTER-NF3000 FLUX	ND	ND	ND	ND	ND	Fulfilled
10.6	INTERNET FILTER-WINGDING	ND	ND	3	ND	ND	Fulfilled
10.7	INTERNET FILTER-WINGDING	ND	ND	ND	ND	ND	Fulfilled
10.8	INTERNET FILTER-WINGDING	ND	ND	ND	ND	ND	Fulfilled
10.9	INTERNET FILTER-PIN	ND	ND	ND	ND	---	Fulfilled
11	RESET IC	ND	ND	ND	ND	ND	Fulfilled
12	DIDOE BAS16 SOT23	ND	ND	ND	ND	ND	Fulfilled
13	AMP IC	ND	ND	7	ND	ND	Fulfilled
14	MAIN PCB AND KEY PCB	ND	ND	ND	ND	ND	Fulfilled
15	PCB FOR HANDSET SPRING	ND	ND	ND	ND	ND	Fulfilled
16	ABS PLASTIC WHITE PA757	ND	ND	ND	ND	ND	Fulfilled
17	ABS PLASTIC PC-110	ND	ND	ND	ND	ND	Fulfilled
18.1	Analog Switch-	---	---	---	---	---	Declaration
18.2	Analog Switch-LEADFRAME	ND	ND	ND	ND	ND	Fulfilled



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	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
19.1	PH2.54 CONNECTOR-COPPER NEEDLES	ND	37	ND	ND	---	Fulfilled
19.2	PH2.54 CONNECTOR-PLASTIC PART	ND	ND	ND	ND	ND	Fulfilled
20.1	CEP- PAPER SHEET	ND	ND	ND	ND	ND	Fulfilled
20.2	PLASTIC SHEET	ND	ND	ND	ND	ND	Fulfilled
20.3	RUBBER COVER	ND	ND	24	ND	ND	Fulfilled
20.4	SILVERY METAL SHELL	ND	ND	8	ND	---	Fulfilled
20.5	SILVERY GREY METAL SHEET	ND	ND	13	ND	ND	Fulfilled
20.6	GREY METAL SHEET	ND	ND	ND	ND	ND	Fulfilled
20.7	PIN	ND	ND	8	ND	---	Fulfilled
20.8	BROWN SHEET	ND	ND	ND	ND	ND	Fulfilled
20.9	METAL SHELL WITH BLACK LETTER	ND	ND	20	ND	---	Fulfilled
20.10	BLACK PLASTIC SHEET	ND	ND	ND	ND	ND	Fulfilled
21.1	ADAPTER JACK-PLASTIC	ND	ND	ND	ND	ND	Fulfilled
21.2	METAL	ND	ND	ND	ND	---	Fulfilled
22	MLCC	ND	ND	ND	ND	ND	Fulfilled
23	MLCC	ND	ND	ND	ND	ND	Fulfilled
24	MLCC	ND	ND	ND	ND	ND	Fulfilled
25	RESISTOR	ND	ND	ND	ND	ND	Fulfilled
26.1	RJ45 CONNECTOR-PLASTIC	ND	ND	ND	ND	ND	Fulfilled
26.2	RJ45 CONNECTOR-C5191 COPPER	ND	ND	13	ND	---	Fulfilled

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	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
26.3	RJ45 CONNECTOR-ROLLING GOLD PLATING	ND	ND	ND	ND	ND	Fulfilled
26.4	RJ45 CONNECTOR-ROLLING NICKEL PLATING	ND	ND	ND	ND	ND	Fulfilled
27	LED	ND	ND	ND	ND	ND	Fulfilled
28	MIC	ND	ND	24	ND	ND	Fulfilled
29.1	NETWORK CABLE- COPPER WIRE	ND	ND	ND	ND	ND	Fulfilled
29.2	PLUG	ND	ND	ND	ND	ND	Fulfilled
29.3	PVC PLASTIC	ND	ND	ND	ND	ND	Fulfilled
29.4	COPPER CONTACT	ND	ND	12	ND	ND	Fulfilled
30	SPEAKER	ND	ND	ND	ND	ND	Fulfilled
31	DUST NET	ND	ND	ND	ND	---	Declaration
32	SCREW	ND	ND	ND	ND	---	Fulfilled
33	FOOTPAD	ND	ND	ND	ND	ND	Fulfilled
34	SPONGE	ND	ND	8	ND	ND	Fulfilled
35	RECEIVER	ND	ND	ND	ND	ND	Fulfilled
36	FOOTPAD	ND	ND	ND	ND	ND	Fulfilled
36	PAD OF RECEIVER	ND	ND	ND	ND	ND	Fulfilled
37	METAL BLOCK	ND	ND	ND	ND	---	Fulfilled



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	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
38	PAPER CARD FUNCTION	ND	ND	ND	ND	ND	Fulfilled
39	MARKING LABEL	ND	ND	ND	ND	ND	Fulfilled
40	ART PAPER SELF ADHESIVE LABEL	ND	ND	ND	ND	ND	Fulfilled
41.1	HANDSET WIRE-PVC PLASTIC	ND	ND	ND	ND	ND	Fulfilled
41.2	HANDSET WIRE-COPPER	ND	ND	ND	ND	---	Fulfilled
42	MANUAL PAPER	ND	ND	ND	ND	ND	Fulfilled
43	PACKAGE PAG	ND	ND	ND	ND	ND	Fulfilled
44	LCD PROTECTIVE FILM	ND	ND	ND	ND	ND	Fulfilled
45	ADAPTER	---	---	---	---	---	Fulfilled
46.1	PACKAGE BOX-PAPER BOARD	ND	ND	ND	ND	ND	Fulfilled
46.2	PACKAGE BOX-INK1	ND	ND	ND	ND	ND	Fulfilled
46.3	PACKAGE BOX-INK2	ND	ND	ND	ND	ND	Fulfilled
47	EASY SHREDDING LABEL	ND	ND	4	ND	ND	Fulfilled
48	QC PASS LABEL	ND	ND	ND	ND	ND	Fulfilled
49.1	HANDSET SPRING-PBT	ND	ND	ND	ND	ND	Fulfilled
49.2	HANDSET SPRING-GOLD WIRE	ND	ND	ND	ND	ND	Fulfilled

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	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
49.3	HANDSET SPRING-COPPER SHEET	ND	ND	9	ND	---	Fulfilled
50.1	FPC CABLE-WIRE	ND	ND	8	ND	---	Fulfilled
50.2	FPC CABLE-PVC BLACK PLASTIC	ND	ND	ND	ND	ND	Fulfilled
50.3	FPC CABLE-PVC RED	ND	ND	ND	ND	ND	Fulfilled
50.4	FPC CABLE-COPPER	ND	ND	5	ND	---	Fulfilled
50.5	FPC CABLE-ABC ENCLOSURE	ND	ND	ND	ND	ND	Fulfilled
51.1	LCD MODULE-IC	ND	ND	ND	ND	ND	Fulfilled
51.2	LCD MODULE-DISPLAY	ND	ND	12	ND	ND	Fulfilled
51.3	LCD MODULE-PET SHEET	ND	ND	ND	ND	ND	Fulfilled
51.4	LCD MODULE-SILVERY PASTE	ND	ND	ND	ND	ND	Fulfilled
51.5	LCD MODULE-WHITE PET	ND	ND	ND	ND	ND	Fulfilled
52.1	DIP CONNECTOR-GOLD PLATING	ND	ND	44	ND	---	Fulfilled
52.2	DIP CONNECTOR-C2680 COPPER	ND	ND	12	ND	ND	Fulfilled
52.3	DIP CONNECTOR-PA6T	ND	ND	ND	ND	ND	Fulfilled
52.4	DIP CONNECTOR-COPPER	ND	2	29	ND	---	Fulfilled
53.1	PH2.54 CABLE AND 616E-ABS PLASTIC	ND	ND	ND	ND	ND	Fulfilled



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	Detected content (grade) – See below marks						
	Parts description	Cr6+	Cd	Pb	Hg	Br	Conclusion
53.2	PH2.54 CABLE AND 616E-WIRE	ND	ND	14	ND	---	Fulfilled
53.3	PH2.54 CABLE AND 616E-PVC PLASTIC BLACK	ND	ND	ND	ND	ND	Fulfilled
53.4	PH2.54 CABLE AND 616E-PVC PLASTIC RED	ND	ND	ND	ND	ND	Fulfilled
53.5	PH2.54 CABLE AND 616E-H52 BRASS PLATE	ND	ND	246	ND	---	Fulfilled
54.1	FPC CONNECTOR-PLASTIC	ND	ND	6	ND	ND	Fulfilled
54.2	DK-BROWN PLASTIC	ND	ND	9	ND	ND	Fulfilled
54.3	PIN	ND	ND	72	ND	---	Fulfilled
55	FFC/LVDS CONNECTOR	ND	ND	5	ND	ND	Fulfilled
56	IC IMP809T	ND	ND	ND	ND	ND	Fulfilled
57.1	TRANSFORMER-WIRE	ND	ND	ND	ND	ND	Fulfilled
57.2	CORE	ND	ND	ND	ND	ND	Fulfilled
57.3	ENCLOSURE	ND	ND	51Max	ND	ND	Fulfilled
58	SOP IC	ND	ND	10Max	ND	ND	Fulfilled
59	TO-263 IC	ND	ND	ND	ND	ND	Fulfilled
60	LED	ND	ND	7	ND	ND	Fulfilled
61	CHANGTIAN IC SOT	ND	ND	ND	ND	ND	Fulfilled



Remark
1. Refer to client information CTI: CTI:RLSZD000857290002
2. Refer to client information SGS: SGS:CE/2012/B1690
3. Refer to client information from DECLARATION LETTER
4.1 Refer to client information SGS:SHAEC1121108409
4.2 Refer to client information SGS:TSNEC1110119901
4.3 Refer to client information SGS:LPCI/27980-1/11
4.4 Refer to client information CTI:RLSZE001178330004
4.5 Refer to client information SGS:TSNEC1110157401
5 Refer to client information SGS:CE/2009/B0652
6 Refer to client information from DIODES DECLARATION LETTER
7. Refer to client information WINBOND DECLARATION LETTER
8.1 .1Refer to client information ITS:RT10R-U2414-003-E
8.1.2 Refer to client information PONY:E02101006204D-5
8.2 Refer to client information SGS:SHAEC1100514403
8.3 Refer to client information SGS:CE/2011/21172
8.4 Refer to client information SGS:KA/2010/A1011
8.5 Refer to client information SGS:GZ1005046817/CHEM
8.6 Refer to client information SGS:CANEC1100102203
9. Refer to client information SGS:CANEC1215886908
10.1 Refer to client information CTI:RLSZD001057800003C
10.2 Refer to client information SGS:CANAUTO1200224501
10.3 Refer to client information AOV:A001C110601034001-1
10.4 Refer to client information SGS:CE/2011/90128
10.5 Refer to client information CTI:RLSZD000890970004
10.6 Refer to client information SGS:CANAUTO1200223801



10.7 Refer to client information SGS:CANAUTO1200225001
10.8 Refer to client information SGS:CANAUTO1200224201
10.9 Refer to client information AOV:A001C110601034001
11 Refer to client information SGS:NGBEC1200158901
12. Refer to client information SGS:SHAEC1104701505
13 Refer to client information SGS:GZ1103035578/CHEM
14 Refer to client information CTI:RLSSZE001449540001C
15 Refer to client information SGS:SHAEC1303426402
16 Refer to client information SGS:KA/2011/C1889
17 Refer to client information SGS:CE/2011/64826A
18.1 Refer to client information from NXP declaration letter
18.2 Refer to client information SGS:KA/2011/C1777
19.1 Refer to client information SGS:CANEC1111180403
19.2 Refer to client information CTI:RLSZD000901720001
20 Refer to client information SGS:CANEC1112135201
21.1 Refer to client information CTI:RLNBF000128970002
21.2 Refer to client information CTI:RLNBF000128970011
22. Refer to client information SGS:KA/2013/10509
23.Refer to client information SGS:CANEC1110605105
24.Rfer to client information SGS:CANEC1110605104
25.Refer to client information SGS:CE/KA/C0587
26.1 Refer to client information CTI:RLSZD000984760003
26.2 Refer to client information SGS:GZ1108110486/CHEM
26.3 Refer to client information SGS:CANEC1102672709
26.4 Refer to client information SGS:CANEC1102672703
27.Refer to client information TUV:68.164.11.00003.03A



28	Refer to client information SGS:CE/2011/22177
29.1	Refer to client information SGS:GZ1103025554/CHEM
29.2	Refer to client information SGS:CE/2012/30567B
29.3	Refer to client information CTI:RLSDD000094790003
29.4	Refer to client information SGS: CE/2012/30602B
30.	Refer to client information SGS:GZ1104044948/CHEM
31	Refer to client information from declaration letter
32	Refer to client information CTI:RLSZF001541910001C
33.	Refer to client information SGS:GZ1103024140/CHEM
34	Refer to client information SGS:GZ1103018611/CHEM
35.	Refer to client information SGS:GZ1104044952/CHEM
36.	Refer to client information SGS:GZ1103018609/CHEM
37.	Refer to client information SGS:CANEC0905103201
38.	Refer to client information SGS:CANEC1101965901
39	Refer to client information SGS:SCATR1103000231
40	Refer to client information CTI:RLSDE000120790002 6ND
41.1	Refer to client information PONY:E12193012704
41.2	Refer to client information PONY:E12193012904D
42	Refer to client information SGS:SHAEC1101620904
43	Refer to client information AOV:A001C120210015001-1
44	Refer to client information SGS:CANEC1103361102
45	Refer to client information SGS:GZ1108112408/CHEM
46.1	Refer to client information SGS:GZ1011135401/CHEM
46.2	Refer to client information SGS:GZ1103033406/CHEM
46.3	Refer to client information SGS:GZ1103033412/CHEM
47	Refer to client information SGS:GZ1103030863/CHEM



48 Refer to client information CTI:RLSDE000120790002
49.1 Refer to client information SGS:CANEC1100504605
49.2 Refer to client information SGS:SHAEC1018875501
49.3 Refer to client information SGS:CANEC1003851902
50.1 Refer to client information SGS:GZ1012140535/CHEM
50.2 Refer to client information SGS:GZ1110130454/CHEM
50.3 Refer to client information SGS:GZ1110204416/CHEM
50.4 Refer to client information SGS:SCATR1104000263
50.5 Refer to client information CTI:RLSZD000901720001
51.1 Refer to client information SGS:CE/2011/B4464A
51.2 Refer to client information SGS:CANEC1110658506 A01
51.3 Refer to client information CTI:RLSZE001178930001C
51.4 Refer to client information SGS:CANEC1103192801
51.5 Refer to client information CTI:RLSZE001178930002C
52.1 Refer to client information SGS:CANEC1102078201
52.2 Refer to client information SGS:CANEC1200140103
52.3 Refer to client information SGS:CANEC1201622803
52.4 Refer to client information SGS:CANML1101289101
53.1 Refer to client information CTI:RLSZD000901720001
53.2 Refer to client information SGS:CANML1111535001
53.3 Refer to client information SGS:GZ1110130454/CHEM
53.4 Refer to client information SGS:CANEC1110204416
53.5 Refer to client information SGS:SHAEC1102754805
54. Refer to client information SGS:CANEC1308485401
55. Refer to client information SGS: CANEC1308485403
56. Refer to client information SGS: BGBEC1200158901



57.1 Refer to client information SGS: CANEC1217889206
57.2 Refer to client information SGS: CANEC1204369803
57.3 Refer to client information CTI: RLSZE00145062C
58. Refer to client information SGS: CANEC1306352401
59. Refer to client information SGS: SHAEC1218715107
60. Refer to client information CTI: RLSDF00020914
61. Refer to client information SGS: SHAEC1301711411 A01

APPENDIX I

DECLARATION LETTER FROM BROADCOM



RoHS EU Directive Compliance

Section 21.0

The European Union (EU) has adopted a new directive 2002/95/EC, the Restriction of Hazardous Substances ("RoHS Directive"), which will restrict the use of certain substances, including lead (Pb), in electrical and electronic products. The directive applies to all such electrical and electronic products and their component parts that will be placed on the market after July 1, 2006. In addition to lead, the directive restricts the use of mercury, cadmium, hexavalent chromium, and certain halide-containing flame retardants.

Broadcom Lead free parts are compliant to EU Restriction of Hazardous Substance (RoHS) Directive 2002/95/EC. The Lead-free package option is available today. Lead-free parts will have a letter 'G' added to the top line of the part marking. See example below

Broadcom standard (non "G") parts are compliant to 5/6 RoHS substances, exception being Pb.

Hg - Mercury Cd - Cadmium Cr+6 - Hexavalent Chromium PBB - Polybrominated Biphenyl PBDE - Polybrominated Diphenylether.



RoHS Compliant Part Marking

**DECLARATION LETTER FROM DIODES****Corporate Address:** 4949 Hedgcoxe Road, Suite 110, Plano, TX 75024, USA

Re: End of Vehicle Life Directive (EVL) 2000/53/EC and Annex II (EVL II) 2000/53/EC
 Restrictions of Hazardous Substances Directive (RoHS) 2002/95/EC & 2011/65/EU
 Waste Electrical and Electronic Equipment (WEEE)
 REACH (EC) No 1907/2006
 Japanese Legislation (Various)
 China RoHS
 California Proposition 65

Diodes Inc. and its subsidiaries including Diodes Zetex Semiconductors Limited have reviewed our manufacturing process and materials along with those of our contractors and suppliers against the above referenced directives.

We hereby declare that all of our products comply fully with the above directives and do not contain any of the following substances except as CURRENTLY exempted* by ELV II and RoHS II:

Asbestos
 Azo compounds (Azocolourants and Azodyes)
 Cadmium and cadmium compounds CAS No 7440-43-9, EC No 231-152-8
 Certain Shortchain Chlorinated Paraffins
 Chlorinated organic compounds
 Dimethyl fumarate
 Hexavalent chromium compounds (Chromium VI compounds)
 Lead and lead compounds
 Mercury and mercury compounds
 Organic tin compounds
 Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)
 Ozone Depleting Substances - Class II (HCFCs)
 Perfluorooctane Sulphonate (PFOS)
 Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) including DecaBDE
 Polychlorinated Biphenyls (PCBs)
 Polychlorinated Naphthalenes (> 3 chlorine atoms)
 Polychlorinated Terphenyls (PCTs)
 Radioactive Substances
 Red Phosphorous
 Tributyl Tin (TBT) and Triphenyl Tin (TPT), Dibutyltin (DBT) compounds, Dioctyltin (DOT) compounds
 Tributyl Tin Oxide (TBTO)

Our products have never contained PFOS or DecaBDE compounds and no exemptions for these have ever been taken.

REACH SVHCs (in addition to those listed above) (All product versions are REACH Compliant - No SVHCs are present)

<u>Substance name</u>	<u>CAS number</u>	<u>EC Number</u>
Anthracene	120-12-7	204-371-1
4,4'- Diaminodiphenylmethane	101-77-9	202-974-4
Dibutyl phthalate	84-74-2	201-557-4
Chloroethene (vinyl chloride)	75-01-4	200-831-0
Cyclododecane	294-62-2	206-033-9
Cobalt dichloride	7646-79-9	231-589-4
Diarsenic pentaoxide	1303-28-2	215-116-9
Diarsenic trioxide	1327-53-3	215-481-4
Sodium dichromate, dihydrate	7789-12-0	
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0
Hexabromocyclododecane (HBCDD)	25637-99-4	247-148-4
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
Bis(tributyltin)oxide	56-35-9	200-268-0
Lead hydrogen arsenate	7784-40-9	232-064-2
Triethyl arsenate	15606-95-8	427-700-2
Benzyl butyl phthalate	85-68-7	201-622-7

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REACH ANNEX XVII (including amendments) Substances (All products versions do not contain these substances)

Substance name	CAS number	EC Number
Tris (2,3 dibromopropyl) phosphate	126-72-7	
Benzene	71-43-2	200-753-7
Asbestos fibres	Multiple, See 2009/552/EC Annex XVII	
Tris(aziridinyl)phosphin oxide	545-55-1	208-892-5
Soap bark powder	68990-67-0	273-620-4
Powder of the roots of Helleborus viridis and Helleborus niger		
Powder of the roots of Veratrum album and Veratrum nigrum		
Benzidine and/or its derivatives	92-87-5	202-199-1
o-Nitrobenzaldehyde	552-89-6	209-025-3
Wood powder		
Ammonium sulphide	12135-76-1	235-223-4
Ammonium hydrogen sulphide	12124-99-1	235-184-3
Ammonium polysulphide	9080-17-5	232-989-1
Methyl bromoacetate	96-32-2	202-499-2
Ethyl bromoacetate	105-36-2	203-290-9
Propyl bromoacetate	35223-80-4	
Butyl bromoacetate	18991-98-5	242-729-9
2-Naphthylamine and its salts	91-59-8	202-080-4
Benzidine and its salts	92-87-5	202-199-1
4-Nitrobiphenyl	92-93-3	202-204-7
4-Aminobiphenyl xenylamine and its salts	92-67-1	202-177-1
Neutral anhydrous carbonate (PbCO ₃)	598-63-0	209-943-4
Trilead-bis(carbonate)-dihydroxide 2PbCO ₃ -Pb(OH) ₂	1319-46-6	215-290-6
PbSO ₄	7446-14-2	231-198-9
Pb ₃ SO ₄	15739-80-7	239-831-0
Arsenic compounds in defined uses		
Organostannic compounds (including those listed in entry 2 of COMMISSION REGULATION (EU) No 276/2010 of 31 March 2010)		
Di-μ-oxo-di-n-butylstanniohydrox-yborane/Dibutyltin –		
Hydrogen borate C ₈ H ₁₉ BO ₃ Sn (DBB)	75113-37-0	401-040-5
Pentachlorophenol and its salts and esters	87-86-5	201-778-6
Monomethyl — tetrachlorodi-phenyl methane		
Trade name: Ugilec 141	76253-60-6	
Monomethyl-dibromo-diphenyl methane bromobenzylbromo-		
toluene, mixture of isomers Trade name: DBBT	99688-47-8	
Nickel (external use where contact with skin can be made)	7440-02-0	231-111-4
Creosote; wash oil	8001-58-9	232-287-5
Creosote oil; wash oil	61789-28-4	263-047-8
Distillates (coal tar), naphthalene oils; naphthalene oil	84650-04-4	283-484-8
Creosote oil, acenaphthene fraction; wash oil	90640-84-9	283-484-8 and 292-605-3
Distillates (coal tar), upper; heavy anthracene oil	65996-91-0	266-026-1
Anthracene oil	90640-80-5	292-602-7
Tar acids, coal, crude; crude phenols	65996-85-2	266-019-3
Creosote, wood	8021-39-4	232-419-1
Low temperature tar oil, alkaline; extract residues (coal),		
low temperature coal tar alkaline	122384-78-5	310-191-5
Chloroform	67-66-3	200-663-8
1,1,2-Trichloroethane	79-00-5	201-166-9
1,1,2,2-Tetrachloroethane	79-34-5	201-197-8
1,1,1,2-Tetrachloroethane	630-20-6	
Pentachloroethane	76-01-7	200-925-1
1,1-Dichloroethene	75-35-4	200-864-0
Hexachloroethane	67-72-1	200-666-4
Alkanes, C ₁₀ -C ₁₃ , chloro (short- chain chlorinated paraffins)		
(SCCPs)	85535-84-8	287-476-5
Diphenylether, pentabromo derivative C ₁₂ H ₅ Br ₅ O		
Diphenylether, octabromo derivative C ₁₂ H ₂ Br ₈ O		
Nonylphenol C ₆ H ₄ (OH)C ₉ H ₁₉	25154-52-3	246-672-0

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DIC-092_R10

Rel Date: 2 February 2012

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**REACH ANNEX XVII (including amendments) Substances (All products versions do not contain these substances)
(Continued)**

<u>Substance name</u>	<u>CAS number</u>	<u>EC Number</u>
Nonylphenol ethoxylates (C ₂ H ₄ O) _n C ₁₅ H ₂₄ O		
Toluene	108-88-3	203-625-9
Trichlorobenzene	120-82-1	204-428-0
Polycyclic-aromatic hydrocarbons (PAH)(a) Benzo[a]pyrene (BaP)	50-32-8	
Benzo[e]pyrene (BeP)	192-97-2	
Benzo[a]anthracene (BaA)	56-55-3	
Chrysen (CHR)	218-01-9	
Benzo[b]fluoranthene (BbFA)	205-99-2	
Benzo[j]fluoranthene (BjFA)	205-82-3	
Benzo[k]fluoranthene (BkFA)	207-08-9	
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0
Dibutyl phthalate (DBP)	84-74-2	201-557-4
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
Di-"isononyl" phthalate (DINP)	28553-12-0 and 68515-48-0	249-079-5 and 271-090-9
Di-"isodecyl" phthalate (DIDP)	26761-40-0 and 68515-49-1	247-977-1 and 271-091-4
Di-n-octyl phthalate (DNOP)	117-84-0	204-214-7
2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	203-906-6
2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	203-961-6
Methylenediphenyl diisocyanate (MDI)	26447-40-5	247-714-0
Cyclohexane	110-82-7	203-806-2
Ammonium nitrate (AN)	6484-52-2	229-347-8
Dichloromethane	75-09-2	200-838-9

REACH ECHA/PR/09/15 Updates of January 2010 All products versions do not contain these substances)

<u>Substance name</u>	<u>CAS number</u>	<u>EC Number</u>
Anthracene oil	292-602-7	90640-80-5
Anthracene oil, anthracene paste, distr. lights	295-278-5	91995-17-4
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Pitch, coal tar, high temp.	266-028-2	65996-93-2
Acrylamide	201-173-7	79-06-1
Aluminosilicate Refractory Ceramic		
Zirconia Aluminosilicate, Refractory Ceramic Fibres		
2,4-Dinitrotoluene	204-450-0	121-14-2
Diisobutyl phthalate	201-553-2	84-69-5
Lead chromate	231-846-0	7758-97-6
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
tris(2-chloroethyl)phosphate	204-118-5	115-96-8

Perfluorooctane sulfonates (PFOS) C₈F₁₇SO₂X (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)

Substances meeting the criteria of flammability in Directive 67/548/ EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2) and listed as follows:

- Carcinogen category 1A (Table 3.1)/carcinogen category 1 (Table 3.2) listed in Appendix 1
- Carcinogen category 1B (Table 3.1)/carcinogen category 2 (Table 3.2) listed in Appendix 2

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) and listed as follows:

- Mutagen category 1A (Table 3.1)/mutagen category 1 (Table 3.2) listed in Appendix 3
- Mutagen category 1B (Table 3.1)/mutagen category 2 (Table 3.2) listed in Appendix 4

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**REACH ECHA/PR/09/15 Updates of January 2010 (Continued)**

Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:

- Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5
- Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6

Substances or mixtures, which are regarded as dangerous according to the definitions in European Union Directives 67/548/EEC and 1999/45/EC.

REACH Updates ED/30/2010 of June 2010 (All product versions are REACH Compliant - No SVHCs present)

<u>Substance name</u>	<u>CAS Number</u>	<u>EC Number</u>
Trichloroethylene	79-01-6	201-167-4
Boric acid	10043-35-3	233-139-2
	11113-50-1	234-343-4
Disodium tetraborate, anhydrous	1303-96-4	215-540-4
	1330-43-4	
	12179-04-3	
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
Potassium dichromate	7778-50-9	231-906-6
Ammonium dichromate	7789-09-5	232-143-1
Potassium chromate	7789-00-6	232-140-5
Sodium chromate	7775-11-3	231-889-5

REACH Updates ED/95/2010 of December 2010 (All product versions are REACH Compliant - No SVHCs present)

<u>Substance name</u>	<u>CAS Number</u>	<u>EC Number</u>
Cobalt(II) sulphate	10124-43-3	233-334-2
Cobalt(II) dinitrate	10141-05-6	233-402-1
Cobalt(II) carbonate	513-79-1	208-169-4
Cobalt(II) diacetate	71-48-7	200-755-8
2-Methoxyethanol	109-86-4	203-713-7
2-Ethoxyethanol	110-80-5	203-804-1
Chromium trioxide	1333-82-0	215-607-8
Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5	231-801-5
	13530-68-2	236-881-5

REACH Updates ED/31/2011 of June 2011 (All product versions are REACH Compliant - No SVHCs present)

<u>Substance name</u>	<u>CAS Number</u>	<u>EC Number</u>
Cobalt dichloride	7646-79-9	231-589-4
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
1,2,3-Trichloropropane	96-18-4	202-486-1
1-Methyl-2-pyrrolidone	872-50-4	212-828-1
Hydrazine	302-01-2 / 7803-57-8	206-114-9
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
Strontium chromate	7789-06-2	232-142-6
2-Ethoxyethyl acetate	111-15-9	203-839-2

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REACH Updates ED/77/2011 of December 2011 (All product versions are REACH Compliant - No SVHCs present)

Substance name	CAS Number	EC Number
1,2-Dichloroethane	107-06-2	203-458-1
2,2'-Dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
4-(1,1,3,3-Tetramethylbutyl) phenol; 4-tert-octyl phenol	140-66-9	205-426-2
Aluminosilicate Refractory Ceramic Fibres	-	-
Arsenic acid	7778-39-4	231-901-9
Bis(2-methoxyethyl) ether	111-96-6	203-924-4
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
Calcium arsenate	7778-44-1	231-904-5
Dichromium tris(chromate)	24613-89-6	246-356-2
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
Lead diazide, Lead azide	13424-46-9	236-542-1
Lead dipicrate	6477-64-1	229-335-2
Lead styphnate	15245-44-0	239-290-0
N,N-dimethylacetamide	127-19-5	204-826-4
Pentazinc chromate octahydroxide	49663-84-5	256-418-0
Phenolphthalein	77-09-8	201-004-7
Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	234-329-8
Trilead diarsenate	3687-31-8	222-979-5
Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-

U.S. Department of Labor Federal Standard 29 – CFR Part 1910.1000 and other Substances:

Our products do not contain the following substances (in addition to those stated above):

Substance name	CAS Number
4-Nitrobiphenyl	92-93-3
alpha-Naphthylamine	134-32-7
methyl chloromethyl ether	107-30-2
3,3'-Dichlorobenzidine (and its salts)	91-94-1
bis-Chloromethyl ether	542-88-1
beta-Naphthylamine	91-59-8
Benzidine	92-87-5
4-Aminodiphenyl	92-67-1
Ethyleneimine	151-56-4
beta-Propiolactone	57-57-8
2-Acetylaminofluorene	53-96-3
4-Dimethylaminoazo-benzene	60-11-7
N-Nitrosodimethylamine	62-75-9.

- Columbite-tantalite, cassiterite or wolframite or derivatives

GADSL: (Global Automotive Declarable Substance List)

Diodes Incorporated's products may contain permutations of the following substances:

Arsenic:	Is used as a dopant in the "chip" or "die".
Antimony Trioxide:	Is used as a part of the flame retardant system in non-green product.
Copper:	Some products use copper in the leadframe alloy, some others have a copper-plated Alloy 42 leadframe. Copper is increasingly being used internally in product to form connections between the die and the leadframe.
Lead:	Some products have a high temperature solder die attach >85% lead, some have lead in the die passivation or the glass encapsulation, others have lead in the copper leadframe alloy. All of these applications are exempted from RoHS.

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**Rare Earth Metals:**

Our products do not contain:

Scandium, Yttrium, Lanthanum, Cerium, Praseodymium, Neodymium, Promethium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium, Ruthenium.

Japanese Laws:

No. 117, 1973, as last amended by Law No.49, 2003. Our products do not contain:

- N,N'> -ditoryl-para-phenylenediamine>
- N-tolyl-N'> -xylyl-para-phenylenediamine
- N> '> -dixyl-paraphenylenediamine (CAS # 15017-02-4)

No. 32 of September 30, 1972 and Ministry of Health, Labour and Welfare Ordinance No. 47 of March 30, 2007 from the Japan International Center for Occupational Safety and Health. Our products do not contain:

- Mirex > -> CAS # 2385-85-5
- Benzidine and its salts CAS numbers 531-85-1, 92-87-5, 531-86-2
- Benzene paste (benzene 5% or more)

No. 138 of 1970, Water Pollution Control Law, Latest Amendment by Law No. 75 of 1995. Our products do not contain:

- Cyanogen compounds

California Proposition 65

Certain Diodes Inc. products contain lead and/or nickel. These are wholly contained within the devices.

“Green” or “halogen-free” product is defined as:

RoHS and REACH Compliant

Bromine <900ppm, Chlorine <900ppm, Bromine+Chlorine <1500ppm, Antimony Compounds <1000ppm.

* The following applicable exemptions are currently outlined in EVL II and RoHS II:

Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)
(Some Diodes Inc. products use this type of solder internally for die attach purposes)

Aluminium containing up to 0,4 % lead by weight,
Copper alloy containing up to 4 % lead by weight

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.
(Some Diodes Inc. products contain glass passivation at the die level and glass packages contain PbO in the glass)

RoHS exemptions are to be reviewed and may be subject to change at least every four years. Renewal of Exemptions is expected where no viable alternative material is available.

Our products may contain traces of any substance not purposely added and below reporting or detection levels.

David Fitton
Compliance Coordinator

Date: 1 March 2012

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DECLARATION LETTER FROM WINBOND



Halogen Free Compliance Report /不使用禁用物質證明書

PART NUMBER: W9812G6IH-6

Document Date: May 20, 2013

Winbond certifies that the above part number product is in compliance with Halogen Free (IEC 61249-2-21), European RoHS (EU Directive 2011/65/EU), China RoHS, and Level 1 of SONY SS-00259 requirements.

華邦保證以上產品型號符合無鹵素(IEC 61249-2-21), 歐盟RoHS指令(指令 2011/65/EU), 中國電子資訊產品污染控制管理辦法 及 索尼SS-00259第一級管理物質之規定

Banned Substance Analysis Result

Material	Pb	Cd	Hg	CrVI	PBB	PBDE	Br	Cl	Report Date	Analysis reports reference number
Mold Compound	<2	<2	<2	<2	<2	<2	<50	62	Apr-13	CE/2013/41652
Die Attached (Material I)	<2	<2	<2	<2	<2	<2	<50	<50	Mar-13	CE/2013/23594
Die Attached (Material II)	<2	<2	<2	<2	<2	<2	<50	<50	Nov-12	SHAEC1220544101
Leadframe (Material I)	<2	<2	<2	<2	<2	<2	NA	NA	Mar-13	CE/2013/23248
									Mar-13	CE/2013/23251
Leadframe(Material II)	<2	<2	<2	<2	<2	<2	NA	NA	Nov-12	KA/2012/A1658
									Nov-12	KA/2012/A1659
Plating or Solder Ball Composition	6.7	<2	<2	<2	<2	<2	NA	NA	Sep-12	KA/2012/81892
Bond Wire (Material I)	<2	<2	<2	<2	<2	<2	NA	NA	Nov-12	CE/2012/B2890
Bond Wire (Material II)	<2	<2	<2	<2	<2	<2	NA	NA	Nov-12	CE/2012/B2901
Chip	<2	<2	<2	<2	<2	<2	<50	<50	Nov-12	CE/2012/B2684

* Unless otherwise noted, units are in PPM (parts-per-million)

* NA: Not applicable

* Third party analysis reports are available upon request through our sales representative

* 如您需要進一步分析報告, 請聯絡本公司銷售代表

European Union's Restriction on Use of Hazardous Substances ("RoHS")

RoHS Restricted Substances	Threshold, Homogeneous Level
Cadmium (Cd)	< 100 ppm
Hexavalent Chromium (CrVI)	< 1000 ppm
Lead (Pb)	< 1000 ppm
Mercury (Hg)	< 1000 ppm
Polybrominated Biphenyls (PBBs)	< 1000 ppm
Polybrominated Diphenyl Ethers (PBDEs)	< 1000 ppm

Halogen Free Specifications (IEC 61249-2-21,JPCA-ES01 2003, IPC 4101)

Halogen Restricted Substances	Threshold, Homogeneous Level
Chlorine (Cl)	< 900 ppm
Bromine (Br)	< 900 ppm
Total concentration of Bromine (Br) +Chlorine (Cl)	< 1500 ppm

Signature:

Name/Title:

Jing-Fong Tsai

Vice-President, Quality Assurance and ESH Center



Halogen Free Compliance Report /不使用禁用物質證明書

PART NUMBER: W25Q32BVSSIG

Document Date: May 20, 2013

Winbond certifies that the above part number product is in compliance with Halogen Free (IEC 61249-2-21), European RoHS (EU Directive 2011/65/EU), China RoHS, and Level 1 of SONY SS-00259 requirements.

華邦保證以上產品型號符合無鹵素(IEC 61249-2-21), 歐盟RoHS指令(指令 2011/65/EU), 中國電子資訊產品污染控制管理辦法及 索尼SS-00259第一級管理物質之規定

Banned Substance Analysis Result

Material	Pb	Cd	Hg	CrVI	PBB	PBDE	Br	Cl	Report Date	Analysis reports reference number
Mold Compound (Material I)	<2	<2	<2	<2	<2	<2	<50	<50	May-12	KA/2012/51146
									Jul-12	KA/2012/70291
									May-12	KA/2012/51198
									Dec-12	KA/20142/C1223
Mold Compound (Material II)	<2	<2	<2	<2	<2	<2	<50	<50	Apr-13	CE/2013/41591
									Apr-13	CE/2013/41593
Die attach (Material I)	<2	<2	<2	<2	<2	<2	<50	<50	Sep-12	CE/2012/90124
									Sep-12	CE/2012/90121
									Sep-12	CE/2012/90125
									Sep-12	CE/2013/31941
									Mar-13	CE/2012/90123
									Sep-12	CE/2012/90122
Die attach (Material II)	<2	<2	<2	<2	<2	<2	<50	<50	Sep-12	CE/2012/90130
									Sep-12	CE/2012/90127
									Sep-12	CE/2012/90129
									Sep-12	CE/2013/12778
									Jan-13	CE/2012/90131
									Sep-12	CE/2012/90128
Die attach (Material III)	<2	<2	<2	<2	<2	<2	<2	<2	Mar-13	CE/2013/23594
Leadframe (Material I)	10	<2	<2	<2	<2	<2	NA	NA	May-13	KA/2013/41964A-02
Leadframe (Material II)	<2	<2	<2	<2	<2	<2	NA	NA	Nov-12	RT12R-U2022-002-E1
Plating or solder ball composition (Material I)	6.7	<2	<2	<2	<2	<2	NA	NA	Sep-12	KA/2012/81892
Plating or solder ball composition (Material II)	10	<2	<2	<2	<2	<2	NA	NA	Jan-13	CANEC1300174603
Bond wire (Material I)	<2	<2	<2	<2	<2	<2	NA	NA	Nov-12	KA/2012/B1458
Bond wire (Material II)	<2	<2	<2	<2	<2	<2	NA	NA	Nov-12	CE/2012/B2890
Chip	<2	<2	<2	<2	<2	<2	<50	<50	Nov-12	CE/2012/B2684

* Unless otherwise noted, units are in PPM (parts-per-million)

* NA: Not applicable

* Third party analysis reports are available upon request through our sales representative

* 如您需要進一步分析報告, 請聯絡本公司銷售代表

European Union's Restriction on Use of Hazardous Substances ("RoHS")

RoHS Restricted Substances	Threshold, Homogeneous Level
Cadmium (Cd)	< 100 ppm
Hexavalent Chromium (CrVI)	< 1000 ppm
Lead (Pb)	< 1000 ppm
Mercury (Hg)	< 1000 ppm
Polybrominated Biphenyls (PBBs)	< 1000 ppm
Polybrominated Diphenyl Ethers (PBDEs)	< 1000 ppm

Halogen Free Specifications (IEC 61249-2-21, JPCA-ES01 2003, IPC 4101)

Halogen Restricted Substances	Threshold, Homogeneous Level
Chlorine (Cl)	< 900 ppm
Bromine (Br)	< 900 ppm
Total concentration of Bromine (Br) + Chlorine (Cl)	< 1500 ppm

Signature:

Name/Title:

Jing-Fong Tsai
Vice-President, Quality Assurance and ESH Center

DECLARATION LETTER FROM NXP

2010-07-01

Page 1 of 1 pages

**CERTIFICATE OF COMPLIANCE
- RoHS Declaration -**

NXP Semiconductors certifies that, to its best knowledge, semiconductor products designated to be:

- RoHS compliant (including all homogeneous sub-components – the pins, casing, internal parts) and meet the requirements of the EU-Directive 2002/95/EC (Restriction on Hazardous Substances, RoHS) and its amendments. This includes also the non use of DecaBromoDiphenylEther (Deca-BDE).

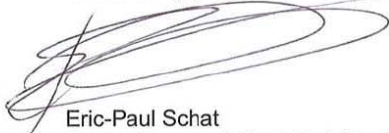
These semiconductor products can be recognized by the "RoHS compliant" logo on the box label. In addition, products that do not make use of a Lead exemption with the "Lead-free" logo. The intention is to make NXP products Lead-Free, when there is appropriate technology available and as long as there is no adverse effect on the NXP high quality standards.

Lead (Pb) is the last of the RoHS Substances to be removed since the other restricted substances were already not used in NXP semiconductor's products. NXP's term of "Lead-free" or "Pb-free" mean semiconductor products that are compatible with the current RoHS requirements for all six of the RoHS substances, including the requirement that Lead (Pb) does not exceed 1000ppm by weight, in all homogeneous subcomponent materials. Where designed to be soldered at high temperatures, NXP "Lead-free" products are suitable for use in specified "Lead-free" processes. This status is based on NXP's understanding of RoHS and NXP's knowledge of the materials that go into its products as of the date of disclosure of information.

To facilitate customer requirements to check compliance of the products of NXP Semiconductors, NXP has made the material content information available via the internet via: http://www.nxp.com/search/chemical_content/index.php

When reviewing the material content, a spreadsheet can be downloaded, for your convenience and further processing in chemical management systems like IMDS. Due to the availability of this service, it's NXP policy not to upload such material content data in customer systems.

The signature below verifies that statements above, including but not limited to any material composition data are, to the best of our knowledge, valid and accurate. However, NXP cannot warrant that products from NXP's customers, in which such NXP products are incorporated, will in turn comply with this RoHS Declaration.



Eric-Paul Schat
Senior Director & Sustainability Officer

NXP Semiconductors
Sustainability Office



DECLARATION LETTER SILICONLABS



Certificate of RoHS Compliance

March 19, 2012

Silicon Laboratories certifies that the device listed below is compliant with the European Union Directive 2002/95/EC for the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

SI32176-B-FM1

No Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr+6), PBB or PBDE is intentionally added to this device. Any trace impurities of these substances contained in the part are below the RoHS specified threshold levels:

Cr+6, Hg, Pb, PBB's, PBDE's < 1000ppm

Cd < 100ppm

All information provided in this Certificate of Compliance is accurate, to the best of our knowledge, as of the date this certification was issued.

Sandeep P. Kumar

Vice President of Quality and Operations Engineering

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APPENDIX II

PHOTOGRAPHAS

