



TEST REPORT

For

Chip module

Model Name: RBCD Series, CBCD Series

Brand Name: Espidertech

Report No.: AGC11841008SZ07R4

Date of Issue: Sep. 01, 2010

Prepared For

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1. GENERAL INFORMATION:

Product Description : Chip module

Model Name : RBCD Series, CBCD Series

Brand Name : Espidertech

Applicant : Espidertech Ltd.

Address of Applicant : 1808, Special Zone Stock Bldg, No. 5020 Binhe Road, Shenzhen, Guangdong, China

Manufacturer : Espidertech Ltd.

Address of Manufacturer : 1808, Special Zone Stock Bldg, No. 5020 Binhe Road, Shenzhen, Guangdong, China

Testing date : From August 23, 2010 to August 30, 2010

Test Requested : With reference to EU RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed 1.0:2008
A. Screening by X-ray Fluorescence Spectroscopy (XRF)
B. Chemical Method
Determination of Lead, Cadmium and Mercury by inductively coupled plasma atomic emission spectrometer (ICP-AES)
Determination of Hexavalent Chromium by UV-visible spectrophotometer (UV-Vis)
Determination of PBBs and PBDEs by gas chromatographic-mass spectrometer (GC-MS)

Results : Please refer to the next page(s)

Checked By _____

Tina Chen Sep. 01, 2010



Authorized By _____

King Zhang Sep. 01, 2010

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2. TEST RESULTS :

A. The Test Results on XRF:

Seq. No.	Specimen Description	Results				
		Pb	Cd	Hg	Cr	Br
1	Black plastic(case)	BL	BL	BL	BL	BL
2	Black body(IC "9J099BE", Main PCB)	BL	BL	BL	BL	BL
3	Black body (IC "D3130", Main PCB)	BL	BL	BL	BL	BL
4	Brown body(SMD capacitor, Main PCB)	BL	BL	BL	BL	BL
5	Black body(SMD Transistor, Main PCB)	BL	BL	BL	BL	BL
6	Black/white body(SMD Resistor, Main PCB)	BL	BL	BL	BL	BL
7	Silvery solder (Main PCB)	BL	BL	BL	BL	----
8	Silvery metal (pin, Main PCB)	BL	BL	BL	BL	----
9*	White printed green fiber with coppery metal(Main PCB)	BL	BL	BL	BL	X
10	Coppery metal (wire)	BL	BL	BL	BL	----
11*	Black plastic(core)	BL	BL	BL	BL	X

-- = Not Conducted

* = Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

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Remark:

Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr()) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321 Ed 1.0:2008.

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. The Test Results of Chemical Method:

1). The test results of PBBs & PBDEs

	Unit	MDL	Results		Limit
			9	11	
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg

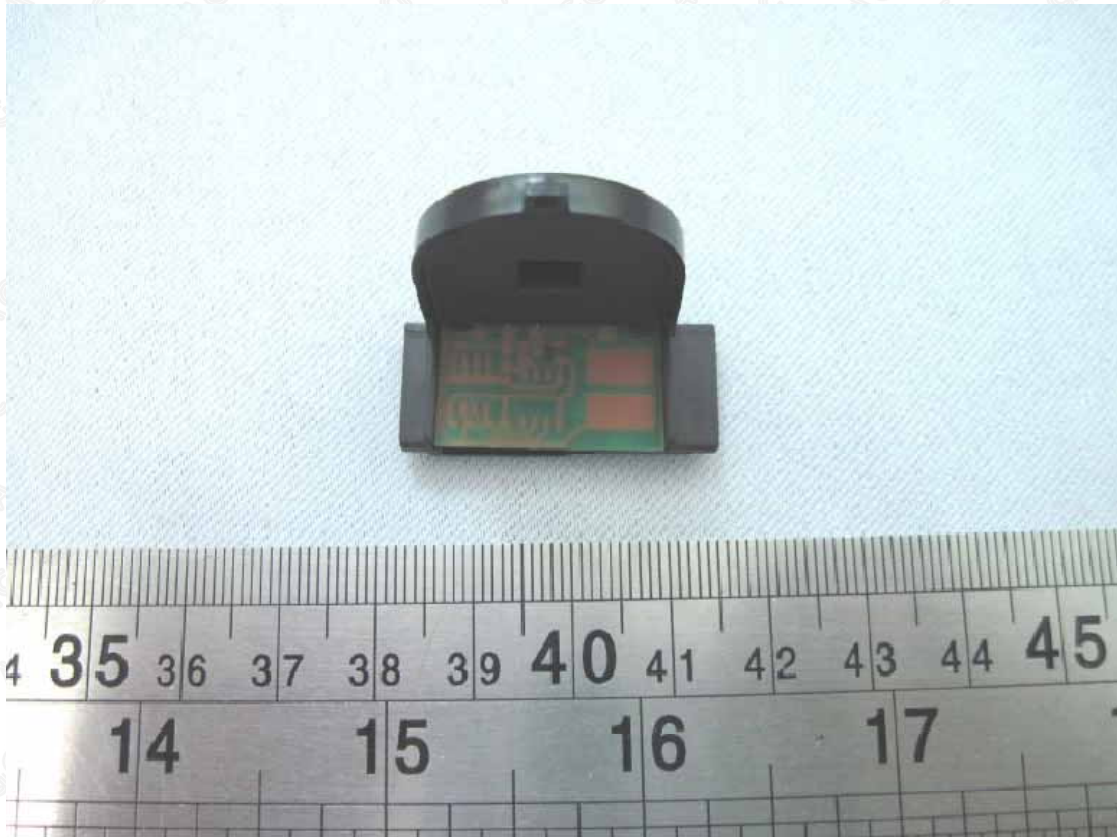
Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo appendix is included.

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APPENDIX

PHOTOGRAPH OF SAMPLE



----END OF REPORT----

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