APPLICATION FOR RoHS DIRECTIVE

On Behalf of

Car Charger

YC690

Prepared for :

Address:

Prepared By : **Shenzhen Alpha Product Testing Co., Ltd.**

Address: **Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China**

Date of Test:	**July 04 – 06, 2015**
Date of Report:	**July 06, 2015**
Report Number:	**T1850770 03**
Version Number:	**REV0**

TEST REPORT
IEC 62321-3-1:2013
Restriction of Hazardous Substance

Report Reference No. ..... :	T1850770 03
Tested by (name + signature) ..... :	Rev Yuan
Approved by (name + signature) ..... :	Susan Chen
Date of issue ..... :	July 06, 2015

SHENZHEN ALPHA PRODUCT TESTING CO., LTD. ALPHA TESTING

Testing Laboratory ..... :	Shenzhen Alpha Product Testing Co., Ltd.
Address ..... :	Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
Testing location / procedure ..... :	TL [√] SMT [ ] TMP [ ]
Testing location / address ..... :	(Same as above.)
Applicant's name ..... :	
Address ..... :	
Test specification:	
Standard ..... :	IEC 62321-3-1:2013
Test procedure ..... :	RoHS procedure
Non-standard test method ..... :	N/A
Test item description ..... :	Car Charger
Model/Type reference ..... :	YC690
Manufacturer ..... :	
Address ..... :	
Possible test case verdicts:	
P=Pass, F=Fail, IC=Inconclusive, -- = Not Regulated	
Testing	
Date of receipt of test item ..... :	July 04, 2015
Date (s) of performance of tests ..... :	July 04 - 06, 2015

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

TEST REPORT

Test Result of XRF

As per IEC 62321-3-1:2013, screened by XRF spectroscopy.

No.	Component Description	Test Item	XRF Result
1	White plastic shell	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
2	Transparent plastic cover	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
3	Silver color metal head	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--
4	Silver color metal shrapnel	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--
5	Spring	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--
6	Black wire covering	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
7	Wire core	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--
8	LED	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P

Test Result of XRF

No.	Component Description	Test Item	XRF Result
9	Cover of inductor	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
10	Inductor	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--
11	Capacitor	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
12	Capacitor	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
13	Resistor	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
14	IC	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
15	Silver color metal pin of USB base	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--
16	Silver color metal of USB base	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	--

Test Result of XRF

No.	Component Description	Test Item	XRF Result
17	White plastic of USB base	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P
18	Diode	Cadmium (Cd)	P
		Lead (Pb)	P
		Mercury (Hg)	P
		Chromium (Cr)	P
		Bromine (Br)	P

Remark:

(1) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).

(2) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321 (unit: mg/kg).

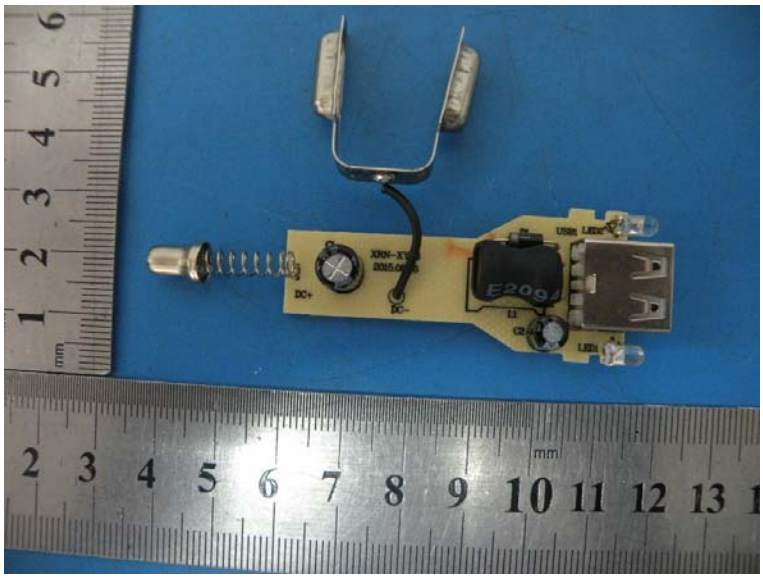
Element	Polymer Material	Metallic Material	Composite Material
Cadmium (Cd)	P≤70-3σ＜IC＜ 130+3σ≤F	P≤70-3σ＜IC＜ 130+3σ≤F	P ≤50-3σ＜IC＜ 150+3σ≤F
Lead (Pb)	P≤700-3σ＜IC＜ 1300+3σ≤F	P≤700-3σ＜IC＜ 1300+3σ≤F	P≤500-3σ＜IC＜ 1500+3σ≤F
Mercury (Hg)	P≤700-3σ＜IC＜ 1300+3σ≤F	P≤700-3σ＜IC＜ 1300+3σ≤F	P≤500-3σ＜IC＜ 1500+3σ≤F
Chromium (Cr)	P≤700-3σ＜IC	P≤700-3σ＜IC	P≤500-3σ＜IC
Bromine (Br)	P≤300-3σ＜IC	--	P≤250-3σ＜IC

(3) mg/kg = milligram per kilogram

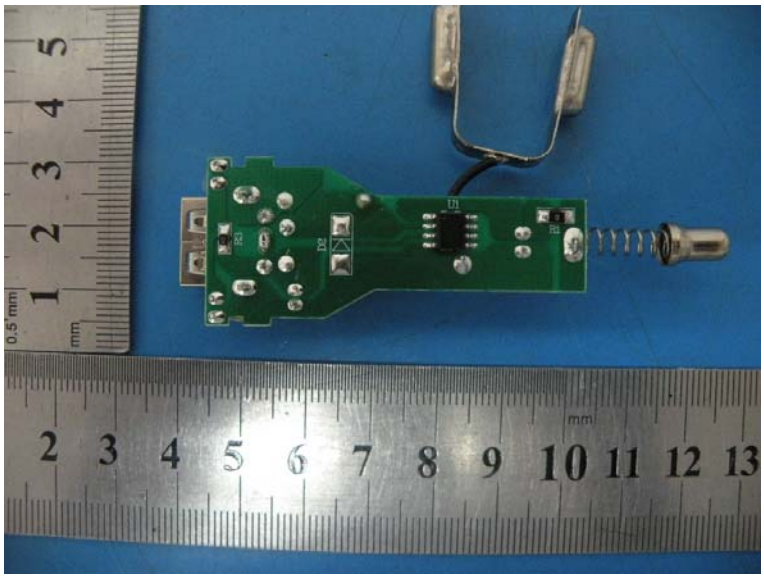
TEST REPORT

Tested sample photos

Tested sample photos



Tested sample photos



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