





Report No. A221007626310120

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<b>Company Name</b>	DONG GUAN BRIGHT LED ELECTRONICS LTD
shown on Report	
Address	NO.8,GAO LONG EAST RD ,GAOBU TOWN,DONG GUAN CTY,GUANG DONG
	PROVINCE.CHINA 523283

### The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample No.	Final Product 1	Name Sample Name(	s)	
001		Photo Coupler 🕏	<b></b> 之架	
002	光耦	Photo Coupler	<b>账</b> 膠	
003		Photo Coupler	目膠	
Sample Received I	Date Mar. 12, 202	1		
Testing Period Mar. 12, 2021 to Mar. 31, 2021				
<b>Test Requested</b> As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),			ury (Hg),	
	Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs),			
Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP,				
	DIBP) in the submitted sample(s).			
<b>Test Method/Test Result(s)</b> Please refer to the following page(s).				
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#### Conclusion

<b>Tested Sample</b>	According to standard/directive	Result
Submitted Semple	RoHS Directive 2011/65/EU with	PASS
Submitted Sample	amendment (EU) 2015/863	FA55
******	***************************************	*****

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Tested by

Kid Zhang Hill Zhang

Reviewed by

Date

Mar. 31, 2021

Hill Zheng Technical Manager

No. R450149963

C **检验检测语用** Final Conductor Co.,Ltd. Inspection & Jesting Services CT Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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#### **Test Method**

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	UV-VIS/ICP-OES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0:2013		
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	





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### Test Result(s)

Tested Item(s)	Result			MDL	Limit
	001	002	003		Linit
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg	1000 mg/kg
		N.D.	N.D.	8 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.♥			0.10 μg/cm <sup>2</sup> (LOQ)	1000 mg/kg

Tested Item(s)	R	esult	MDL	Limit
	002	003		
Polybrominated Biphenyls (PBBs	)			
Monobromobiphenyl	N.D.	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 ma/ka
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	

Tested Item(s)	Re	MDL	Limit	
	002	003		Linnt
Polybrominated Diphenyl Ethers	(PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg	

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Tested Item(s)	Res	MDL	Limit	
Testeu Item(s)	002	003		Linnt
Phthalates (DBP, BBP, DEHP, DI	BP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg

#### Sample/Part Description

- 001 Metal with silver-white plating
- 002 Black plastic
- 003 Beige plastic

### Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is  $0.10 \ \mu g/cm^2$ 

- The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm<sup>2</sup>. The coating is considered a non-Cr(VI) based coating.



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#### Test Process

### 1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



### 2. Mercury (Hg)



### 3. Hexavalent Chromium (Cr(VI)) (1) IEC 62321-7-1:2015





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### 4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)





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Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

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- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;

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- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

\*\*\* End of Report \*\*\*



### Appendix

Client Reference Photo (Non-tested sample)



#### Statement:

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

