



DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

GUANGDONG FOSHAN CANRUI ELECTRONIC  
MATERIALS CO., LTD.(GUOCI MLCC)  
SHUNHELI SCIENCE AND TECHNOLOGY PARK,  
NO. 2 ZHENHUA WEST ROAD, LUNJIAOTOWN,  
SHUNDE DISTRICT, FOSHAN CITY, GUANGDONG  
CHINA

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## TEST REPORT

**Test Report No.** : **4917343.58** Version 1  
**Project No.** : **4917343.00**  
**Test Report Date** : **2024-04-03**


Job No. : 24-00745  
Applicant : GUANGDONG FOSHAN CANRUI ELECTRONIC MATERIALS CO.,  
LTD.(GUOCI MLCC)  
SHUNHELI SCIENCE AND TECHNOLOGY PARK, NO. 2 ZHENHUA  
WEST ROAD, LUNJIAOTOWN, SHUNDE DISTRICT, FOSHAN CITY,  
GUANGDONG CHINA

Product No. : Chip Capacitor  
Model No. : X5R  
Brand : GUOCI  
Country of Origin : CHINA  
Country of Destination : EU  
Test Requested : RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863  
- Lead, Mercury, Cadmium, Hexavalent chromium,  
- Polybrominated biphenyls (PBB),  
- Polybrominated diphenyl ethers (PBDE),  
- Bis(2-ethylhexyl) phthalate (DEHP),  
- Butyl benzyl phthalate (BBP),  
- Dibutyl phthalate (DBP),  
- Diisobutyl phthalate (DIBP)  
Test Method : Please refer to next pages  
Sample Received : 2024-03-25  
Testing Period : 2024-03-25 to 2024-04-02

Test Results

- following pages -

**Resume:**

Parameter	Sample photos:
RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863	 <p>PASS</p>

Signed for and on behalf of

**DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch**

Chemical & Mechanical

*Devin Ai* 


Devin Ai  
Laboratory Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

## TEST RESULTS

### RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863

**Test Components:**

Test No.	Name of material	Photograph
1	Beige Chip Capacitor	

Test Item	Result (mg/kg)	MDL (mg/kg)
	(1)	
Lead (Pb)	N.D.	5
Mercury (Hg)	N.D.	5
Cadmium (Cd)	N.D.	5
Chromium (VI) (Cr <sup>6+</sup> )	N.D.	2

Test Item	Result (mg/kg)	MDL (mg/kg)
	(1)	
Monobromobiphenyl	N.D.	10
Dibromobiphenyl	N.D.	10
Tribromobiphenyl	N.D.	10
Tetrabromobiphenyl	N.D.	10
Pentabromobiphenyl	N.D.	10
Hexabromobiphenyl	N.D.	10
Heptabromobiphenyl	N.D.	10
Octabromobiphenyl	N.D.	10
Nonabromobiphenyl	N.D.	10
Decabromobiphenyl	N.D.	10
Sum of PBBs	N.D.	—
Mono-bromodiphenyl ether	N.D.	10
Dibromodiphenyl ether	N.D.	10
Tribromodiphenyl ether	N.D.	10

Test Item	Result (mg/kg)	MDL (mg/kg)
	(1)	
Tetrabromodiphenyl ether	N.D.	10
Pentabromodiphenyl ether	N.D.	10
Hexabromodiphenyl ether	N.D.	10
Heptabromodiphenyl ether	N.D.	10
Octabromodiphenyl ether	N.D.	10
Nonabromodiphenyl ether	N.D.	10
Decabromodiphenyl ether	N.D.	10
Sum of PBDEs	N.D.	—

Test Item	Result (mg/kg)	MDL (mg/kg)
	(1)	
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	50
Butyl benzyl phthalate (BBP)	N.D.	50
Dibutyl phthalate (DBP)	N.D.	50
Diisobutyl phthalate (DIBP)	N.D.	50

**Remark:**

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. mg/kg = milligram per kilogram

**Test Method**

Test Item	Test Method	Test Instrument	MDL	EU RoHS Limit (mg/kg)
Lead (Pb)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Cadmium (Cd)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	100
Mercury (Hg)	IEC 62321-4: 2013 AMD 1:2017 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015 Ed.1.0 Sec.7	UV-Vis	0.1µg/cm <sup>2</sup>	1000
	IEC 62321-7-2:2017 Ed.1.0 Sec.7	UV-Vis	2mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Bis(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
Dibutyl phthalate (DBP)	IEC 62321-8:2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000

Test Item	Test Method	Test Instrument	MDL	EU RoHS Limit (mg/kg)
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000

---End of Report---