



广通检测

Zhongshan GTT Testing Technology Co., Ltd.

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 1 of 12

**Applicant:** Dongguan WELAIK Intelligent Electric Co., Ltd.

**Address:** No C37&C38, Shun King Terrace, Vision Center, Hongyuan, South City of Dongguan, Guangdong Province, China

**Manufacturer:** Dongguan WELAIK Intelligent Electric Co., Ltd.

**Address:** No C37&C38, Shun King Terrace, Vision Center, Hongyuan, South City of Dongguan, Guangdong Province, China

**Sample Name:** European standard 2Frame 1gang1way Touch switch + European standard power socket

**Model No:** A29118ECW,A1911CW,A1912CW,A1913CW,A1914CW,A1921CW,A1922CW,A1923CW,A1924CW,A911,A912,A913,A914,A921,A922,A923,A924,A1921CLCW,A1923CLCW,A1923CLCWR01,R01,LA101,A18EW,A18EFW,A29118ECW,A29218ECW,A1911WIFICW,A1921WIFICW,A29118FCW,A29218FCW.

**Trade Mark:** WELAIK

**Test period:** Dec. 23, 2019 to Dec. 24, 2019

**Test requested:** RoHS Directive 2011/65/EU Annex II and its amendment Directive EU 2015/863.

**Test Method:** IEC 62321-7-2:2017method: Regulated Substances Content of test process with Electrical & Electronic Products

- (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3)With reference to IEC 62321-4:2017, determination of Mercury by ICP-OES.
- (4)With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.
- (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
- (6)With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Written by:

*Tomy Tan*

Approved by:



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# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 2 of 12

## Test Results:

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
1	Recoverable Diode	Cd	mg/kg	N.D.	CANEC1709316798
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
2	Rectifier Diode	Cd	mg/kg	N.D.	SHAEC1701695968
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
3	Power Chip	Cd	mg/kg	N.D.	SHAEC1605825598
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 3 of 12

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
4	Driving Chip	Cd	mg/kg	N.D.	CANEC1613734978
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
5	Rectifier Bridge	Cd	mg/kg	N.D.	CANEC1411813596
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
6	Tantalum Capacitor	Cd	mg/kg	N.D.	CANEC1618812685
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 4 of 12

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
7	SMD Secondary Pipe	Cd	mg/kg	N.D.	CANEC1700365579
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
8	SMD Resistor	Cd	mg/kg	N.D.	SZXEC1700696538
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
9	SMD Transistor	Cd	mg/kg	N.D.	SHAEC1500493594
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 5 of 12

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
10	SMD Regulator	Cd	mg/kg	N.D.	CANEC1700361685
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
11	SMD Capacitor	Cd	mg/kg	N.D.	SZXEC1700699685
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
12	Plug in optical coupler	Cd	mg/kg	N.D.	SHAEC1500497546
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 6 of 12

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
13	Plug in triode	Cd	mg/kg	N.D.	CANEC1700361243
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
14	Plug in ceramic chip capacitor	Cd	mg/kg	N.D.	SZXEC1700693594
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
15	Plug in electrolytic capacitor	Cd	mg/kg	N.D.	SHAEC1500493594
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 7 of 12

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
16	Singlechip	Cd	mg/kg	N.D.	CANEC1700367543
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
17	Light guide plate	Cd	mg/kg	N.D.	SZXEC1700696594
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
18	Glass panel	Cd	mg/kg	N.D.	SHAEC1500494239
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 8 of 12

Part No.	Part Name	Restricted Substances	Unit	Results	Reference report No.
19	Plastic shell	Cd	mg/kg	N.D.	CANEC1700363377
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
20	Plastic panel	Cd	mg/kg	N.D.	SZXEC1700696234
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	
21	Screw	Cd	mg/kg	N.D.	SHAEC1500494613
		Pb	mg/kg	N.D.	
		Hg	mg/kg	N.D.	
		Cr <sup>6+</sup>	mg/kg	N.D.	
		PBBs	mg/kg	N.D.	
		PBDEs	mg/kg	N.D.	
		DBP	mg/kg	N.D.	
		BBP	mg/kg	N.D.	
		DEHP	mg/kg	N.D.	
		DIBP	mg/kg	N.D.	



# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 9 of 12

## ROHS Requirement

Restricted substances	MDL	Limits
Lead(Pb)	5	0.1%(1000 ppm)
Cadmium(Cd)	5	0.01%(100 ppm)
Chromium(VI)(Cr6+)	5	0.1%(1000 ppm)
Mercury(Hg)	5	0.1%(1000 ppm)
Polybrominated biphenyls(PBBs)	5	0.1%(1000 ppm)
Polybrominated diphenyl ethers(PBDEs)	5	0.1%(1000 ppm)
Dibutyl Phthalate (DBP)	5	0.1%(1000 ppm)
Benzylbutyl Phthalate (BBP)	5	0.1%(1000 ppm)
Bis-(2-ethylhexyl) Phthalate (DEHP).	5	0.1%(1000 ppm)
Diiso butyl Phthalate (DIBP)	5	0.1%(1000 ppm)

### Note:

\_mg/kg=ppm=0.0001%

-MDL=Method Detection Limit

-N.D. =not detected (<MDL)

-Photo is included

-Test results are from other testing organizations. Zhongshan GTT Testing Technology Co., Ltd. has no liability to assume the verification of the authenticity of the above test reports results.

Zhongshan GTT Testing Technology Co., Ltd.

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# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 10 of 12

## Photographs of Sample:



# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 11 of 12



**THE END**

# Test Report

No.: GTT191223626-R

Date: Dec. 24, 2019

Page 12 of 12

## STATEMENT

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

If you have any objection to this report, please submit it to the test unit within 15 days from the date of receipt of the report.

Test Laboratory: Zhongshan GTT Testing Technology Co., Ltd.

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