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**Applicant** : Ropla Elektronik Sp. z o.o.

Address : ul. Wrocławska 1C, 52-200 Suchy Dwór

Manufacturer : Ropla Elektronik Sp. z o.o.

Address : ul. Wrocławska 1C, 52-200 Suchy Dwór

Sample Name : Bridge Rectifier, Diode, Transistors, Triode, Module

: SOD-123, SOD-323, SOT-23, SOD-523, SOD-123FL, SMA, SMAF, SMB, Sample Model

SMBF, SMC, MBS, MBF, ABS, DBS, MBM, SOP-4, SOP-8, DFN1006-2L, DO-15, DO-41, DO-27, R-6, 17-AA, GBU, KBP, KBL, TO-220F, TO-263,

TO-92, TO-89, LL-34, LL-41, SOT, DFS.

Trade Name : AKYGA SEMI

Receiving Date : Nov 22, 2022

**Testing Period** : Nov 22, 2022 to Nov 29, 2022

Test Requested : Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium [Cr(VI)],

Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs),

Diisobutyl phthalate (DIBP), Dibutyl phthalate (DBP), Benzyl butyl phthalate (BBP)

and Bis(2-ethylhexyl) phthalate (DEHP).

Test Method : With reference to IEC 62321-4:2013/AMD 1:2017, IEC 62321-5:2013,

IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017,

analysis was performed by ICP-OES, UV-VIS and GC-MS.

Test Results : Please refer to next page(s)

Conclusion The limits as set by RoHS Directive (EU) 2015/863

amending Annex II to Directive 2011/65/EU.

**PASS** 



Edited by: Camile Li Reviewed by: Morgan Li

Approved by: Terry Caro

Dongguan ZRLK Testing Technology Co., Ltd.





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## **Sample Description**

Sample No.	Sample Description	Sample No.	Sample Description
1	Rectifier diode (R-6)	29	Black diode (SOD-523)
2	Silvery metal (R-6)	30	Rectifier bridge (MBS)
3	Rectifier diode (D0-41)	31	Silvery metal pin (MBS)
4	Silvery metal (D0-41)	32	Rectifier bridge (DFS)
5	Black resistor (DFN1006-22)	33	Silvery metal pin (DFS)
6	Black material (SOP-8)	34	Schottky diode (SMC)
7	Silvery metal pin (SOP-8)	35	Schottky diode (SMC)
8	Black triode (SOT-23)	36	Rectifier bridge (GBu)
9	Black diode (SOP-323)	37	Silvery metal pin (GBu)
10	Black diode (SOD-123)	38	Stabilized voltage power supply (TO-263)
11	Black diode (SMB)	39	Silvery metal pin (TO-263)
12	Black diode (SOD-123FC)	40	Rectifier bridge (NBM)
13	Black material IC (DBS)	41	Silvery metal pin (NBM)
14	Silvery metal pin IC (DBS)	42	Rectifier bridge (DBS)
15	Field effect transistor(TO-220F)	43	Silvery metal pin (DBS)
16	Silvery metal pin (TO-220F)	44	Rectifier bridge (KBL)
17	Black diode (LL-41)	45	Silvery metal pin (KBL)
18	Black diode (SMA)	46	Black triode (TO-92)
19	Black diode (SMBF)	47	Silvery metal pin (TO-92)
20	Rectifier bridge (MBS)	48	Rectifier bridge (KBP)
21	Silvery metal pin (MBS)	49	Silvery metal pin (KBP)
22	Rectifier bridge (ABS)	50	Black triode (TO-92)
23	Silvery metal pin (ABS)	51	Silvery metal pin (TO-92)
24	Rectifier bridge (MBF)	52	Field effect transistor (TO-220F)
25	Silvery metal pin (MBF)	53	Silvery metal pin (TO-220F)
26	Black diode (SMAF)	54	Rectifier diode (17-AA)
27	Three terminal voltage stabilizing tube (SOT)	55	Silvery metal (17-AA)
28	Black diode (LL-34)		

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#### **Test Results**

Test Items	Limit		Test Results (mg/kg)						
	(mg/kg)	1	2	3	4	5	(mg/kg)		
Lead (Pb)	1000	ND	ND	ND	ND	ND	2		
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2		
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2		
Hexavalent chromium [Cr(VI)]	1000	ND	Negative	ND	Negative	ND	10		

Test Items	Limit		Test Results (mg/kg)					
	(mg/kg)	6	7	8	9	10	(mg/kg)	
Lead (Pb)	1000	ND	ND	ND	ND	ND	2	
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2	
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2	
Hexavalent chromium [Cr(VI)]	1000	ND	Negative	ND	ND	ND	10	

Test Items	Limit		Test Results (mg/kg)					
	(mg/kg)	11	12	13	14	15	(mg/kg)	
Lead (Pb)	1000	ND	ND	ND	ND	ND	2	
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2	
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2	
Hexavalent chromium [Cr(VI)]	1000	ND	ND	ND	Negative	ND	10	

Test Items	Limit		Test Results (mg/kg)					
	(mg/kg)	16	17	18	19	20	(mg/kg)	
Lead (Pb)	1000	ND	ND	ND	ND	ND	2	
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2	
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2	
Hexavalent chromium [Cr(VI)]	1000	Negative	ND	ND	ND	ND	10	

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. The sample is negative for Cr(VI) if the Cr(VI) concentration is less than 0.10  $\mu g/cm^2$ , the sample is considered a non-Cr(VI) based coating.

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#### **Test Results**

Test Items	Limit		Test Results (mg/kg)						
	(mg/kg)	21	22	23	24	25	(mg/kg)		
Lead (Pb)	1000	ND	ND	ND	ND	ND	2		
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2		
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2		
Hexavalent chromium [Cr(VI)]	1000	Negative	ND	Negative	ND	Negative	10		

Test Items	Limit		Test Results (mg/kg)						
	(mg/kg)	26	27	28	29	30	(mg/kg)		
Lead (Pb)	1000	ND	ND	ND	ND	ND	2		
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2		
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2		
Hexavalent chromium [Cr(VI)]	1000	ND	ND	ND	ND	ND	10		

Test Items	Limit		Test Results (mg/kg)					
	(mg/kg)	31	32	33	34	35	(mg/kg)	
Lead (Pb)	1000	ND	ND	ND	ND	ND	2	
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2	
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2	
Hexavalent chromium [Cr(VI)]	1000	Negative	ND	Negative	ND	ND	10	

Test Items	Limit		Test Results (mg/kg)						
	(mg/kg)	36	37	38	39	40	(mg/kg)		
Lead (Pb)	1000	ND	ND	ND	ND	ND	2		
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2		
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2		
Hexavalent chromium [Cr(VI)]	1000	ND	Negative	ND	Negative	ND	10		

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. The sample is negative for Cr(VI) if the Cr(VI) concentration is less than 0.10  $\mu g/cm^2$ , the sample is considered a non-Cr(VI) based coating.

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#### **Test Results**

Test Items	Limit		Test Results (mg/kg)					
	(mg/kg)	41	42	43	44	45	(mg/kg)	
Lead (Pb)	1000	ND	ND	ND	ND	ND	2	
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2	
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2	
Hexavalent chromium [Cr(VI)]	1000	Negative	ND	Negative	ND	Negative	10	

Test Items	Limit		Test Results (mg/kg)						
	(mg/kg)	46	47	48	49	50	(mg/kg)		
Lead (Pb)	1000	ND	ND	ND	ND	ND	2		
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2		
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2		
Hexavalent chromium [Cr(VI)]	1000	ND	Negative	ND	Negative	ND	10		

Test Items	Limit		Test Results (mg/kg)						
	(mg/kg)	51	52	53	54	55	(mg/kg)		
Lead (Pb)	1000	ND	ND	ND	ND	ND	2		
Cadmium (Cd)	100	ND	ND	ND	ND	ND	2		
Mercury (Hg)	1000	ND	ND	ND	ND	ND	2		
Hexavalent chromium [Cr(VI)]	1000	Negative	ND	Negative	ND	Negative	10		

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. The sample is negative for Cr(VI) if the Cr(VI) concentration is less than 0.10  $\mu g/cm^2$ , the sample is considered a non-Cr(VI) based coating.

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#### **Test Results**

T4 I4	Limit			MDL					
Test Items	(mg/kg)	1	2	5	6	8	9	10	(mg/kg)
Monobromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Dibromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tribromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Pentabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Hexabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Heptabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Octabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Nonabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Decabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBBs	1000	ND	ND	ND	ND	ND	ND	ND	
Monobromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Dibromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tribromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Pentabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Hexabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Heptabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Octabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Nonabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Decabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBDEs	1000	ND	ND	ND	ND	ND	ND	ND	
Diisobutyl phthalate (DIBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Dibutyl phthalate (DBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Bis(2-ethylhexyl) phthalate (DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	30

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. "---" = Not specified.

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#### **Test Results**

Test Items	Limit		Test Results (mg/kg)							
1 est items	(mg/kg)	11	12	13	15	17	18	19	(mg/kg)	
Monobromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Dibromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Tribromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Tetrabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Pentabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Hexabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Heptabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Octabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Nonabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Decabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30	
Sum of PBBs	1000	ND	ND	ND	ND	ND	ND	ND		
Monobromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Dibromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Tribromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Tetrabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Pentabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Hexabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Heptabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Octabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Nonabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Decabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30	
Sum of PBDEs	1000	ND	ND	ND	ND	ND	ND	ND		
Diisobutyl phthalate (DIBP)	1000	ND	ND	ND	ND	ND	ND	ND	30	
Dibutyl phthalate (DBP)	1000	ND	ND	ND	ND	ND	ND	ND	30	
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	30	
Bis(2-ethylhexyl) phthalate (DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	30	

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. "---" = Not specified.

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#### **Test Results**

T4 H	Limit			MDL					
Test Items	(mg/kg)	20	22	24	26	27	28	29	(mg/kg)
Monobromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Dibromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tribromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Pentabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Hexabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Heptabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Octabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Nonabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Decabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBBs	1000	ND	ND	ND	ND	ND	ND	ND	
Monobromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Dibromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tribromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Pentabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Hexabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Heptabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Octabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Nonabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Decabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBDEs	1000	ND	ND	ND	ND	ND	ND	ND	
Diisobutyl phthalate (DIBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Dibutyl phthalate (DBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Bis(2-ethylhexyl) phthalate (DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	30

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. "---" = Not specified.

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#### **Test Results**

T. A. I.	Limit			MDL					
Test Items	(mg/kg)	30	32	34	35	36	38	40	(mg/kg)
Monobromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Dibromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tribromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Pentabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Hexabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Heptabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Octabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Nonabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Decabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBBs	1000	ND	ND	ND	ND	ND	ND	ND	
Monobromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Dibromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tribromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Pentabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Hexabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Heptabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Octabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Nonabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Decabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBDEs	1000	ND	ND	ND	ND	ND	ND	ND	
Diisobutyl phthalate (DIBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Dibutyl phthalate (DBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Bis(2-ethylhexyl) phthalate (DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	30

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
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#### **Test Results**

Т И.	Limit			MDL					
Test Items	(mg/kg)	42	44	46	48	50	52	54	(mg/kg)
Monobromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Dibromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tribromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Pentabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Hexabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Heptabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Octabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Nonabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Decabromobiphenyl		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBBs	1000	ND	ND	ND	ND	ND	ND	ND	
Monobromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Dibromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tribromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Tetrabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Pentabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Hexabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Heptabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Octabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Nonabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Decabromodiphenyl ether		ND	ND	ND	ND	ND	ND	ND	30
Sum of PBDEs	1000	ND	ND	ND	ND	ND	ND	ND	
Diisobutyl phthalate (DIBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Dibutyl phthalate (DBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	30
Bis(2-ethylhexyl) phthalate (DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	30

Notes: 1. MDL = Method detection limit.

- 2. ND = Not detected (lower than MDL).
- 3. 1 mg/kg = 1 ppm = 0.0001%.
- 4. "---" = Not specified.

### Dongguan ZRLK Testing Technology Co., Ltd.

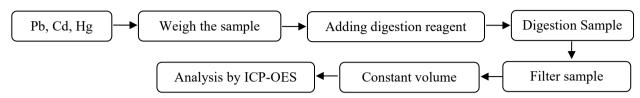




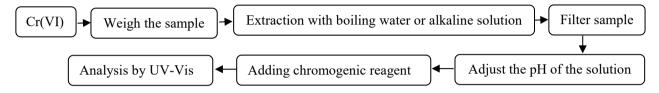
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#### **Test Flow Chart**

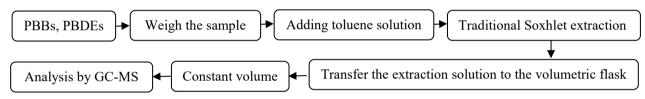
1. Pb, Cd, Hg (ICP-OES test method)



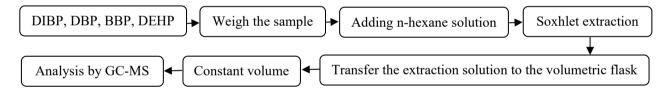
2. Cr(VI) (UV-Vis test method)



3. PBBs, PBDEs (GC-MS test method)



4. DIBP, DBP, BBP, DEHP (GC-MS test method)



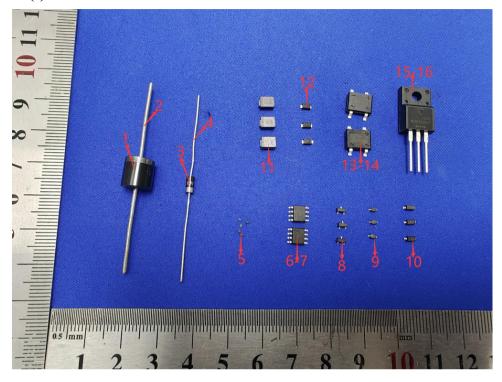
### Dongguan ZRLK Testing Technology Co., Ltd.

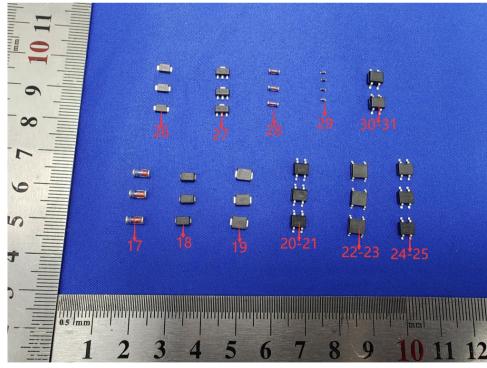




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## Sample Photo(s)





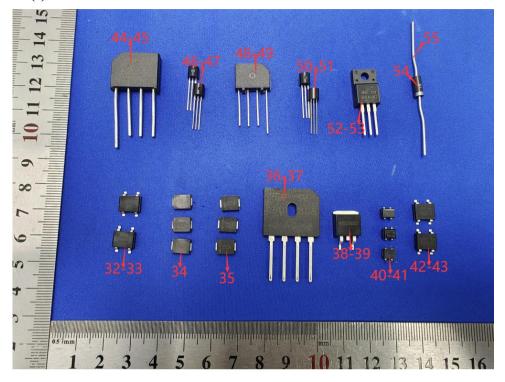
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### Sample Photo(s)



#### **Statement**

- 1. Report is invalid without the editor, the reviewer or the approver signature, or altered, or additions and deletions, or not stamped with a special seal.
- 2. This test report is only responsible for the sample of this acceptance.
- 3. If the applicant does not raise any objection within 15 working days after receiving the report, it shall deemed to approve the report result.
- 4. If you want to check the report, please scan the QR code.

\* \* \* End of report \* \* \*

### Dongguan ZRLK Testing Technology Co., Ltd.

