

Test Report

No.: EG210423029C04MVer.1

Date: Apr. 28, 2021

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Applicant : TONGFU MICROELECTRONICS CO.,LTD.
Address : No.288,Chongchuan Road, Nantong, Jiangsu, China

The sample and sample information tested below are provided and confirmed by the applicant

Sample Name : TSSOP28
Model : Metal pin, Black body
Received Date : Apr. 23, 2021
Test Period : Apr. 23, 2021~Apr. 28, 2021
Test Summary :

Test Item	Conclusion
Directive 2011/65/EU (RoHS) and its Amendments	Pass
PFOS, PFOA	Pass
Beryllium oxide, Beryllium copper	Pass
Antimony(Sb)	N/A
Please refer to the following page (The requirements of SS-00259 12th edition)	Pass

Remark: Pass: Meet the requirement; Fail: Doesn't meet the requirement; N/A: Without conclusions or provide test results only.



Signed for and on behalf of
 EMTEK(Suzhou) Co., Ltd.

Prepared by: Coral
 Qiu Zhiyu, Coral
 Assistant engineer

Reviewed by: Hunter
 Yang Xiao, Hunter
 Technical supervisor

Approved by: Jason
 Jiang Yufeng, Jason
 Authorized signatory
 Apr. 28, 2021



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Sample Description

(The sample and sample information tested below are provided and confirmed by the applicant)

Sample No.	Sample Number	Model	Quantity
4	EG21042302904	Metal pin, Black body	1pc
4.1		Metal pin	1pc
4.2		Black body	1pc

Summary of Test Results

1. RoHS

1.1 Test Method

Test Item	Test Method
Cadmium (Cd), Lead (Pb)	IEC 62321-5:2013
Mercury (Hg)	IEC 62321-4:2013+A1:2017
Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015

1.2 Test Instrument

Instrument Name	Manufacturer	Model
ICP-OES	Agilent	720
UV-Vis	SHIMADZU	UV-1800

1.3 Test Result: Limit according to Directive 2011/65/EU (RoHS) and its Amendments

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	4.1		
Lead (Pb)	N.D.	2	1000
Cadmium (Cd)	N.D.	2	100
Mercury (Hg)	N.D.	2	1000
Hexavalent Chromium (Cr ⁶⁺)	N.D.	0.10µg/cm ²	--

Note:

- 1) N.D. = Not Detected (Less than Detection Limit).
- 2) MDL= Method Detection Limit.

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3) Because it is difficult to measure the weight of the anticorrosion in plating accurately, the content of hexavalent chromium in plating shows in its quality of unit area.

Unit: $\mu\text{g}/\text{cm}^2$. Because the storage conditions and production date of the test samples are unknown, the test results of Cr(VI) are only represent its state during test period.

a. When Sample Cr(VI) concentration is Less than $0,10 \mu\text{g}/\text{cm}^2$, The sample is negative for Cr(VI), The sample not contain Cr(VI) , The test result is Pass.

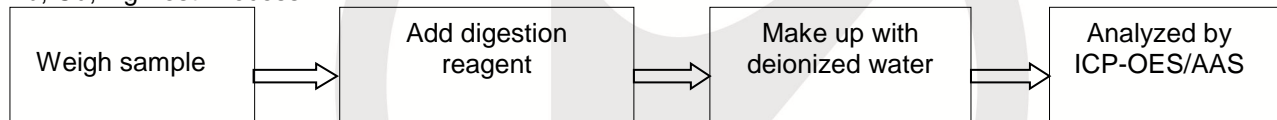
b. When Sample Cr(VI) concentration Between $0,10 \mu\text{g}/\text{cm}^2$ and $0,13 \mu\text{g}/\text{cm}^2$, The result need to reconfirm. The test result is not judge.

c. When Sample Cr(VI) concentration greater than $0,13 \mu\text{g}/\text{cm}^2$, The sample is positive for Cr(VI), The sample contain Cr(VI) , The test result is Fail.

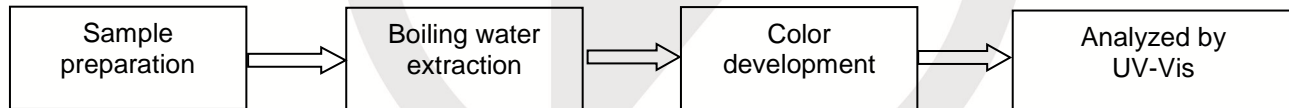
4) Specimens, which requested to determine Lead, Cadmium and Mercury content, have been dissolved completely.

1.4 Test Flowchart

Pb, Cd, Hg Test Process:



Cr⁶⁺ Test Process:



2. PFOS, PFOA

2.1 Test Method

Test Item	Test Method
PFOS, PFOA	US EPA 3550C:2007&US EPA 8321B:2007

2.2 Test Instrument

Instrument Name	Manufacturer	Model
LC-MS	SHIMADZU	LCMS-2020

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2.3 Test Result

Test Item	Result (mg/kg)		MDL (mg/kg)	Client Limit (mg/kg)
	4.1	4.2		
Perfluorooctane sulfonic acid and its derivatives (PFOS)	N.D.	--	0.01	0.025
Perfluorooctanoic Acid (PFOA)	N.D.	N.D.	0.01	0.025

Note

- 1) N.D. = Not Detected (Less than Detection Limit)
- 2) MDL= Method Detection Limit.

3. Beryllium oxide, Beryllium copper

3.1 Test Method

Test Item	Test Method
Beryllium oxide, Beryllium copper	US EPA 3052:1996 & US EPA 6010D:2018

3.2 Test Instrument

Instrument Name	Manufacturer	Model
ICP-OES	Agilent	720

3.3 Test Result: Limit according to the requirements of SS-00259 12th edition

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	4.1	4.2		
Beryllium oxide**	N.D.		5	Not Detectable
Beryllium copper**	N.D.		5	Not Detectable

Note

- 1) N.D. = Not Detected (Less than Detection Limit)
- 2) MDL= Method Detection Limit.
- 3) **The results are from the selected element Be test results obtained conversion

4. Antimony (Sb)

4.1 Test Method

Test Item	Test Method
Antimony (Sb)	US EPA 3052:1996 & US EPA 6010D:2018

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4.2 Test Instrument

Instrument Name	Manufacturer	Model
ICP-OES	Agilent	720

4.3 Test Result

Test Item	Result (mg/kg)		MDL (mg/kg)
	4.1	4.2	
Antimony (Sb)	N.D.	N.D.	2

Note

- 1) N.D. = Not Detected (Less than Detection Limit)
- 2) MDL= Method Detection Limit.

5. The requirements of SS-00259 12th edition

5.1 Test Method

Test Item	Test Method
Cadmium (Cd), Lead (Pb)	IEC 62321-5:2013
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017
Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017
PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenyl-ethers)	IEC 62321-6:2015
Hexabromocyclododecane (HBCDD)	US EPA 3540C:1996&US EPA 8270E:2018
Other brominated organic compounds	US EPA 5021A:2003&US EPA 8270E:2018
Polychlorinated biphenyls (PCB)	US EPA 3540C:1996&US EPA 8270E:2018
Polychlorinated naphthalenes (PCN)	US EPA 3540C:1996&US EPA 8270E:2018
Polychlorinated terphenyls (PCT)	US EPA 3540C:1996&US EPA 8270E:2018
Short-chain chlorinated paraffins (SCCP)	US EPA 3540C:1996&US EPA 8270E:2018
Tris(2-chloroethyl) phosphate (TCEP)	US EPA 3540C:1996&US EPA 8270E:2018
Perchlorates	Internal Method
Polyvinyl chloride (PVC) and PVC blends*****	ASTM D2124-99

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Test Item	Test Method
Other chlorinated organic compounds	US EPA 5021A:2003&US EPA 8270E:2018
Hydrofluorocarbon (HFC), Perfluorocarbon (PFC)	US EPA 5021A:2003&US EPA 8270E:2018
Ozone depleting substances (ODS)	US EPA 5021A:2003&US EPA 8270E:2018
Perfluorooctane sulfonates (PFOS)	US EPA 3550C:2007&US EPA 8321B:2007
Trisubstituted organotin compounds (including tributyltin (TBT) compounds and triphenyltin (TPT) compounds), Dibutyltin (DBT) compounds	DIN EN ISO 17353:2005
Diocetyl tin (DOT) compounds	DIN EN ISO 17353:2005
Beryllium, Beryllium oxide, Beryllium copper	US EPA 3052:1996&US EPA 6010D:2018
Cobalt, Cobalt dichloride	US EPA 3052:1996&US EPA 6010D:2018
Arsenic, Diarsenic trioxide, Diarsenic pentoxide	US EPA 3052:1996&US EPA 6010D:2018
Di-isononyl phthalate, Di-isodecyl phthalate, Di-n- octyl phthalate, Di-n-hexyl phthalate, "1,2- Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich", "1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters", Bis(2-methoxyethyl) phthalate, Diisopentylphthalate, "1,2-Benzenedicarboxylic acid, dipentylester, branched and linear", N-pentyl-isopentylphthalate	US EPA 3550C:2007US EPA 8270E:2018
Bis (2-ethylhexyl)phthalate,Benzyl butyl phthalate,Dibutyl phthalate,Diisobutyl phthalate	IEC 6232-8:2017
Asbestos	NIOSH 9000
Specific azo compounds	ISO 14362-1:2017&ISO 14362-3:2017
Formaldehyde	JIS A 5905:2003
Specific benzotriazole	US EPA 3550C:2007&US EPA 8270E:2018
Dimethyl fumarate (DMF)	US EPA 3550C:2007&US EPA 8270E:2018
Acids and specified sodium borates	US EPA 3052:1996&US EPA 6010D:2018
4-(1,1,3,3-tetramethylbutyl) phenol	US EPA 3550C:2007&US EPA 8270E:2018
Bis(2-methoxyethyl) ether	US EPA 3550C:2007&US EPA 8270E:2018

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Test Item	Test Method
N,N-dimethylacetamide (DMAC)	US EPA 3550C:2007&US EPA 8270E:2018
Ethylene glycol dimethyl ether (EGDME)	US EPA 3550C:2007&US EPA 8270E:2018

5.2 Test Instrument

Instrument Name	Manufacturer	Instrument Model
ICP-OES	Agilent	720
UV-Vis	SHIMADZU	UV-1800
GC-MS	Agilent	7890B-5977A
LC-MS	SHIMADZU	LCMS-2020
GC-MS	SHIMADZU	QP2010 Ultra
GC-MS	SHIMADZU	QP2010 Ultra
Polarizing microscope	Germany Leica	DM4000M
Muffle furnace	Zhuochi	SX3-3-13
Analytical Balance	Mettler Toledo	XS204
GC-MS	Agilent	7890B/5977A
HS-GCMS	SHIMADZU	HS-20 QP2010 Ultra
FT-IR	Thermo	Nicolet is 10
LC-FLD	SHIMADZU	LC-20AD

5.3 Test Result: Limit according to the requirements of SS-00259 12th edition

Test Item	Unit	MDL	Result	Limit
			4.2	
Cadmium (Cd)	mg/kg	2	N.D.	100
Lead (Pb)	mg/kg	2	N.D.	1000
Mercury (Hg)	mg/kg	2	N.D.	1000
Hexavalent Chromium (Cr ⁶⁺)	mg/kg	2	N.D.	1000
Polybrominated Biphenyls (Mono – Deca) (PBBs)				

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Test Item	Unit	MDL	Result	Limit
			4.2	
Polybrominated Biphenyls (Mono – Deca) (PBBs)	mg/kg	--	N.D.	1000
Monobromobiphenyl	mg/kg	5	N.D.	--
Dibromobiphenyl	mg/kg	5	N.D.	--
Tribromobiphenyl	mg/kg	5	N.D.	--
Tetrabromobiphenyl	mg/kg	5	N.D.	--
Pentabromobiphenyl	mg/kg	5	N.D.	--
Hexabromobiphenyl	mg/kg	5	N.D.	--
Heptabromobiphenyl	mg/kg	5	N.D.	--
Octabromobiphenyl	mg/kg	5	N.D.	--
Nonabromobiphenyl	mg/kg	5	N.D.	--
Decabromobiphenyl	mg/kg	5	N.D.	--
Polybrominated Diphenylethers (Mono – Deca) (PBDEs) including Decabromodiphenyl ether				
Polybrominated Diphenylethers (Mono – Deca) (PBDEs)	mg/kg	--	N.D.	1000
Monobromodiphenyl ether	mg/kg	5	N.D.	--
Dibromodiphenyl ether	mg/kg	5	N.D.	--
Tribromodiphenyl ether	mg/kg	5	N.D.	--
Tetrabromodiphenyl ether	mg/kg	5	N.D.	--
Pentabromodiphenyl ether	mg/kg	5	N.D.	--
Hexabromodiphenyl ether	mg/kg	5	N.D.	--
Heptabromodiphenyl ether	mg/kg	5	N.D.	--
Octabromodiphenyl ether	mg/kg	5	N.D.	--
Nonabromodiphenyl ether	mg/kg	5	N.D.	--
Decabromodiphenyl ether	mg/kg	5	N.D.	--

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Test Item	Unit	MDL	Result	Limit	
			4.2		
Hexabromocyclododecane (HBCDD)	mg/kg	5	N.D.	1000	
Other brominated organic compounds	Total Bromine	mg/kg	50	N.D.	900
	Other brominated organic compounds	mg/kg	5	N.D.	--
Polychlorinated biphenyls (PCB)	mg/kg	5	N.D.	50	
Polychlorinated naphthalenes (PCN)	mg/kg	5	N.D.	50	
Polychlorinated terphenyls (PCT)	mg/kg	5	N.D.	50	
Short-chain chlorinated paraffins (SCCP)	mg/kg	5	N.D.	1000	
Tris(2-chloroethyl) phosphate (TCEP)	mg/kg	5	N.D.	1000	
Perchlorates	ppb	5	N.D.	6	
Polyvinyl chloride (PVC) and PVC blends*****	--	--	Not Contain	Not Detected	
Other chlorinated organic compounds	Total Chlorine	mg/kg	50	N.D.	900
	Other chlorinated organic compounds	mg/kg	5	N.D.	--

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Test Item	Unit	MDL	Result	Limit
			4.2	
Hydrofluorocarbon (HFC)	mg/kg	5	N.D.	Not Detected
Perfluorocarbon (PFC)	mg/kg	5	N.D.	Not Detected
Ozone depleting substances (ODS)				
CFC-11; trichlorofluoromethane	mg/kg	1	N.D.	Not Detected
CFC-12; dichlorofluoromethane	mg/kg	1	N.D.	Not Detected
CFC-113; trichlorofluoroethane	mg/kg	1	N.D.	Not Detected
CFC-114; dichlorotetrafluoroethane	mg/kg	1	N.D.	Not Detected
CFC-115; chloropentafluoroethane	mg/kg	1	N.D.	Not Detected
Halon-1211; bromochlorodifluoromethane	mg/kg	1	N.D.	Not Detected
Halon-1301; bromotrifluoromethane	mg/kg	1	N.D.	Not Detected
Halon-2402; dibromotetrafluoroethane	mg/kg	1	N.D.	Not Detected
CFC-13; chlorotrifluoromethane	mg/kg	1	N.D.	Not Detected
CFC-111; pentachlorofluoroethane	mg/kg	1	N.D.	Not Detected
CFC-112; tetrachlorodifluoroethane	mg/kg	1	N.D.	Not Detected
CFC-211; heptachlorofluoropropane	mg/kg	1	N.D.	Not Detected
CFC-212; hexachlorodifluoropropane	mg/kg	1	N.D.	Not Detected
CFC-213; pentachlorotrifluoropropane	mg/kg	1	N.D.	Not Detected
CFC-214; tetrachlorotetrafluoropropane	mg/kg	1	N.D.	Not Detected
CFC-215; trichloropentafluoropropane	mg/kg	1	N.D.	Not Detected
CFC-216; dichlorohexafluoropropane	mg/kg	1	N.D.	Not Detected
CFC-217; chloroheptafluoropropane	mg/kg	1	N.D.	Not Detected
Carbon tetrachloride; tetrachloromethane	mg/kg	1	N.D.	Not Detected
1,1,1-Trichloroethane; methyl chloroform	mg/kg	1	N.D.	Not Detected

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Test Item	Unit	MDL	Result	Limit
			4.2	
Perfluorooctane sulfonates (PFOS)*****	mg/kg	10	N.D.	Not Detected
Trisubstituted organotin compounds				
Tin (Sn)	mg/kg	2	N.D.	1000
Tributyltin (TBT) compounds	mg/kg	0.2	N.D.	Not Detected
Triphenyltin (TPT) compounds	mg/kg	0.2	N.D.	Not Detected
Dibutyltin (DBT) compounds	mg/kg	0.2	N.D.	--
Dioctyltin (DOT) compounds	mg/kg	0.2	N.D.	--
Be				
Beryllium oxide*****	mg/kg	5	N.D.	Not Detected
Beryllium copper*****	mg/kg	5	N.D.	Not Detected
Co				
Cobalt dichloride*****	mg/kg	5	N.D.	Not Detected
As				
Diarsenic trioxide*****	mg/kg	50	N.D.	1000
Diarsenic pentaoxide*****	mg/kg	50	N.D.	1000
Phthalate				
Bis (2-ethylhexyl)phthalate; Di (2-ethylhexyl) phthalate(DEHP)(DOP)	mg/kg	50	N.D.	1000
Dibutyl phthalate; Di-n-butyl phthalate(DBP)	mg/kg	50	N.D.	1000

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			4.2	
Benzyl butyl phthalate; Butyl benzyl phthalate(BBP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate; Di-i-butyl phthalate(DIBP)	mg/kg	50	N.D.	1000
Di-isononyl phthalate; Diisononyl phthalate(DINP)	mg/kg	50	N.D.	1000
Di-isodecyl phthalate; Diisodecyl phthalate(DIDP)	mg/kg	50	N.D.	1000
Di-n-octyl phthalate(DNOP)	mg/kg	50	N.D.	1000
Di-n-hexyl phthalate(DNHP)	mg/kg	50	N.D.	1000
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	mg/kg	50	N.D.	1000
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	mg/kg	50	N.D.	1000
Bis(2-methoxyethyl) phthalate (DMEP)	mg/kg	50	N.D.	1000
Diisopentylphthalate (DIPP)	mg/kg	50	N.D.	1000
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	mg/kg	50	N.D.	1000
N-pentyl-isopentylphthalate	mg/kg	50	N.D.	1000
Asbestos				
Crocidolite	%	0.1	Negative	Not Detected
Chrysotile	%	0.1	Negative	Not Detected
Amosite	%	0.1	Negative	Not Detected
Anthophyllite	%	0.1	Negative	Not Detected
Tremolite	%	0.1	Negative	Not Detected
Actinolite	%	0.1	Negative	Not Detected
Specific azo compounds				

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			4.2	
4-aminodiphenyl	mg/kg	5	N.D.	--
benzidine	mg/kg	5	N.D.	--
4-chloro-o-toluidine; 4-chloro-2-methylaniline	mg/kg	5	N.D.	--
2-naphthylamine	mg/kg	5	N.D.	--
o-aminoazotoluene***	mg/kg	5	N.D.	--
2-amino-4-nitrotoluene; 5-nitro-o-toluidine***	mg/kg	5	N.D.	--
2,4-diaminoanisole	mg/kg	5	N.D.	--
2,4-diaminoanisole	mg/kg	5	N.D.	--
4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	mg/kg	5	N.D.	--
3,3'-dichlorobenzidine	mg/kg	5	N.D.	--
3,3'-dimethoxybenzidine	mg/kg	5	N.D.	--
3,3'-dimethylbenzidine	mg/kg	5	N.D.	--
3,3'-dimethyl-4,4'-diaminodiphenylmethane; 4,4'-diamino-3,3'-diphenylmethane	mg/kg	5	N.D.	--
p-cresidine; 6-methoxy-m-toluidine	mg/kg	5	N.D.	--
4,4'-methylene-bis-(2-chloroanilene)	mg/kg	5	N.D.	--
4,4'-oxideaniline	mg/kg	5	N.D.	--
4,4'-thiodianiline; 4,4'-diaminodiphenylsulfide	mg/kg	5	N.D.	--
o-toluidine	mg/kg	5	N.D.	--
2,4-toluylenediamine; 4-methyl-m-phenylenediamine	mg/kg	5	N.D.	--
2,4,5-trimethylaniline	mg/kg	5	N.D.	--
4-aminoazobenzene	mg/kg	5	N.D.	--
4-aminoazobenzene****	mg/kg	5	N.D.	--

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Test Item	Unit	MDL	Result	Limit
			4.2	
Total	mg/kg	----	N.D.	≤30
Formaldehyde	µg/g	0.01	N.D.	0.1
Specific benzotriazole	mg/kg	5	N.D.	Not Detected
Dimethyl fumarate (DMF)	mg/kg	0.1	N.D.	0.1
Acids and specified sodium borates				
Boric acid(CAS No:10043-35-3)	mg/kg	50	N.D.	1000
Boric acid(CAS No:11113-50-1)	mg/kg	50	N.D.	
Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide pentahydrate	mg/kg	50	N.D.	
Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide	mg/kg	50	N.D.	
Disodium tetraborate, anhydrous; Disodium tetraborate decahydrate; Borax	mg/kg	50	N.D.	
Tetraboron disodium heptaoxide, hydrate	mg/kg	50	N.D.	
4-(1,1,3,3-tetramethylbutyl) phenol	mg/kg	5	N.D.	1000
Bis(2-methoxyethyl) ether	mg/kg	5	N.D.	1000
N,N-dimethylacetamide (DMAC)	mg/kg	5	N.D.	1000
Ethylene glycol dimethyl ether (EGDME)	mg/kg	5	N.D.	1000

Note

- 1) N.D. = Not Detected (Less than MDL)
- 2) MDL= Method Detection Limit.
- 3) For the detection of tin, beryllium, cobalt, boron, lead, cadmium, mercury, arsenic of the sample is completely dissolved.

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Test Report

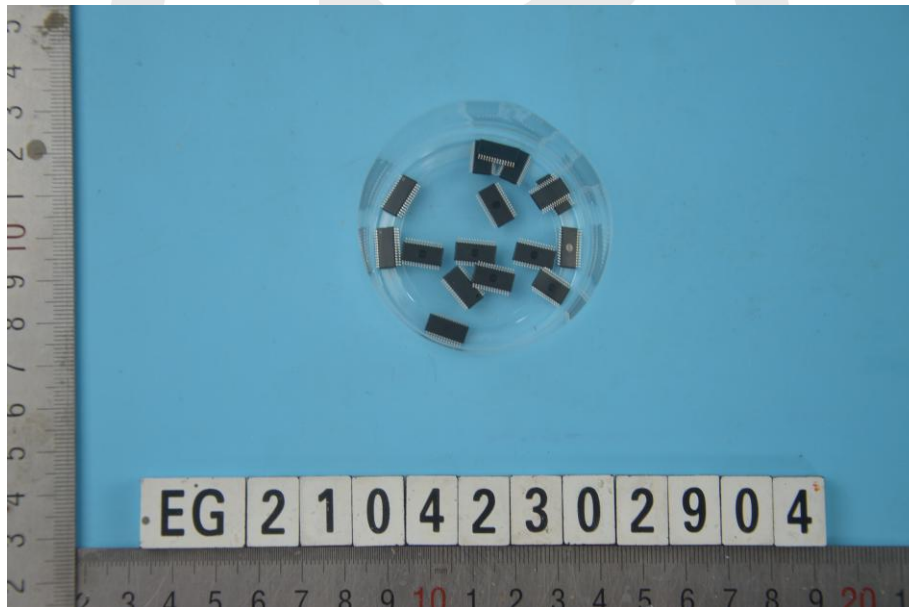
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- 4) "EN 14362-1:2012" and "EN 14362-3:2012" Apply to all the decomposable aromatic amine in the dyeing of textile material testing.
- 5) ***The CAS Number 97-56-3 and 99-55-8 are further reduced to CAS Numbers 95-53-4 and 95-80-7.
- 6) ****Azo colorants that are able to form 4-Aminoazobenzene"EN 14362-1:2012", generate under the condition of this method aniline and 1,4-phenylenediamine. If the detected aniline as positive, 4-aminoazobenzene confirmation must be in accordance with the "EN 14362-3:2012"..
- 7) *****Related Information: (EU) No 757/2010 directives.
- 8) ***** (i) Perfluorooctane sulfonate can not be sold in the market, its concentration in the finished product may not be equal or more than 0.001% of the total.
- 9) ***** (ii) Parts of perfluorooctane sulfonate concentration of the compound equal or exceed 0.1% of total semi-finished or semi- finished products can not be sold in the market; In textiles or other coating objects, perfluorooctane sulfonate content must be less than 1 microgram per square meter.
- 10) *****The results are from the selected element Be, Co, As the test results obtained conversion.

Product Photo



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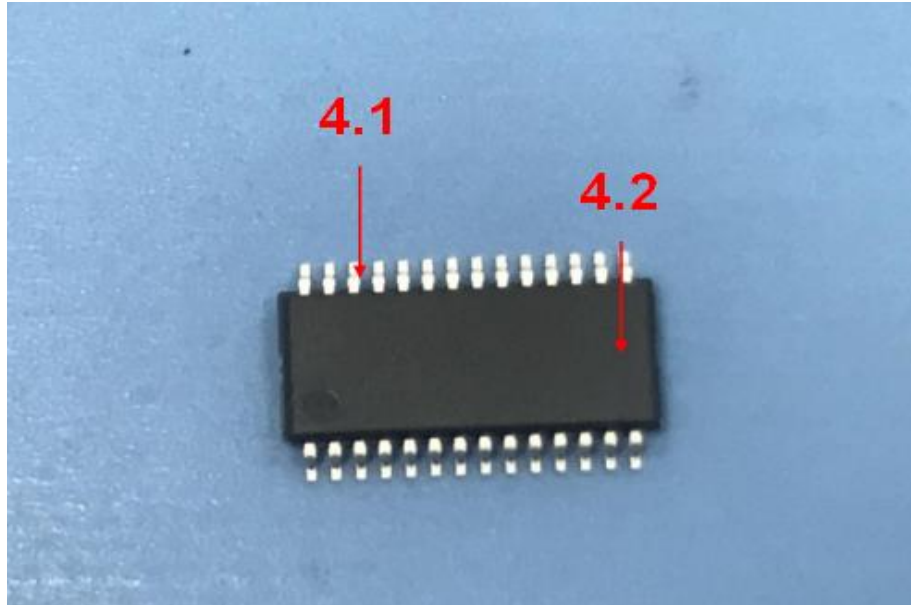
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Sample Photo



*** End of Report ***

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