

## Test Report

No. : CE/2012/32899D Date : 2012/04/02 Page : 1 of 12

COMCHIP TECHNOLOGY CO., LTD.

NO. 31, YONGXIN LN., YINGTAO RD., YINGGE DIST., NEW TAIPEI CITY 239, TAIWAN  
(R. O. C.)



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : SURFACE MOUNT PLASTIC MOLDED PRODUCTS  
Style/Item No. : SOD-523 / SOD-323 / SOD-323S / MINI-SMA(SOD-123) / SOD-123T / SOD-123ST / SOD-123H / SOD-123S / SOD-123HT / MINI-MELF (DO-213AA) / SMA(DO-214AC) / SMA-S / SMA-L / SMA-FL / SMA-HST / SMA-F / MELF (DO-213AB) / SMB(DO-214AA) / SMB-S / SMB-F / SMC (DO-214AB) / SMC-T1 / SMC-F / TO-252 (D-PAK) / ASM-10A / ASM-10C / TO-263 (D2-PAK)  
Sample Receiving Date : 2012/03/09  
Testing Period : 2012/03/09 TO 2012/03/19

Test Result(s) : Please refer to next page(s).

  
**SGS TAIWAN LTD.**  
Chenyu Kung / Operation Manager  
Signed for and on behalf of  
**SGS TAIWAN LTD.**  
Chemical Laboratory – Taipei

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### Test Result(s)

PART NAME No.1 : PLATING LAYER OF SILVER COLORED METAL (SMC (DO-214AB))  
 PART NAME No.2 : BASE MATERIAL OF COPPER COLORED METAL (SMC (DO-214AB))  
 PART NAME No.3 : MIXED ALL PARTS (SMC (DO-214AB))

Test Item(s)	Unit	Method	MDL	Result		
				No.1	No.2	No.3
Cadmium (Cd)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.	n.d.
Lead (Pb)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	192	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.	10200
Mercury (Hg)	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	---	n.d.	n.d.
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative	Negative	---
	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	---	---	n.d.
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	n.d.	---	---

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(R. O. C.)



Test Item(s)	Unit	Method	MDL	Result		
				No.1	No.2	No.3
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	µg/m <sup>2</sup>	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	1	n.d.	---	---
PFOA (CAS No.: 335-67-1)	µg/m <sup>2</sup>	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	1	n.d.	---	---
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	---	---	n.d.
Monobromobiphenyl			5	---	---	n.d.
Dibromobiphenyl			5	---	---	n.d.
Tribromobiphenyl			5	---	---	n.d.
Tetrabromobiphenyl			5	---	---	n.d.
Pentabromobiphenyl			5	---	---	n.d.
Hexabromobiphenyl			5	---	---	n.d.
Heptabromobiphenyl			5	---	---	n.d.
Octabromobiphenyl			5	---	---	n.d.
Nonabromobiphenyl			5	---	---	n.d.
Decabromobiphenyl			5	---	---	n.d.
<b>Sum of PBDEs</b>			-	---	---	n.d.
Monobromodiphenyl ether			5	---	---	n.d.
Dibromodiphenyl ether			5	---	---	n.d.
Tribromodiphenyl ether			5	---	---	n.d.
Tetrabromodiphenyl ether			5	---	---	n.d.
Pentabromodiphenyl ether			5	---	---	n.d.
Hexabromodiphenyl ether			5	---	---	n.d.
Heptabromodiphenyl ether			5	---	---	n.d.
Octabromodiphenyl ether			5	---	---	n.d.
Nonabromodiphenyl ether			5	---	---	n.d.
Decabromodiphenyl ether			5	---	---	n.d.

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Test Item(s)	Unit	Method	MDL	Result		
				No.1	No.2	No.3
<b>Halogen</b>						
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	n.d.

## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. " --- " = Not Conducted
6. \*\* = Qualitative analysis (No Unit)
7. # = a. Positive means the presence of CrVI on the tested areas  
b. Negative means the absence of CrVI on the tested areas

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> tested areas.

8. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.

## PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m<sup>2</sup>.

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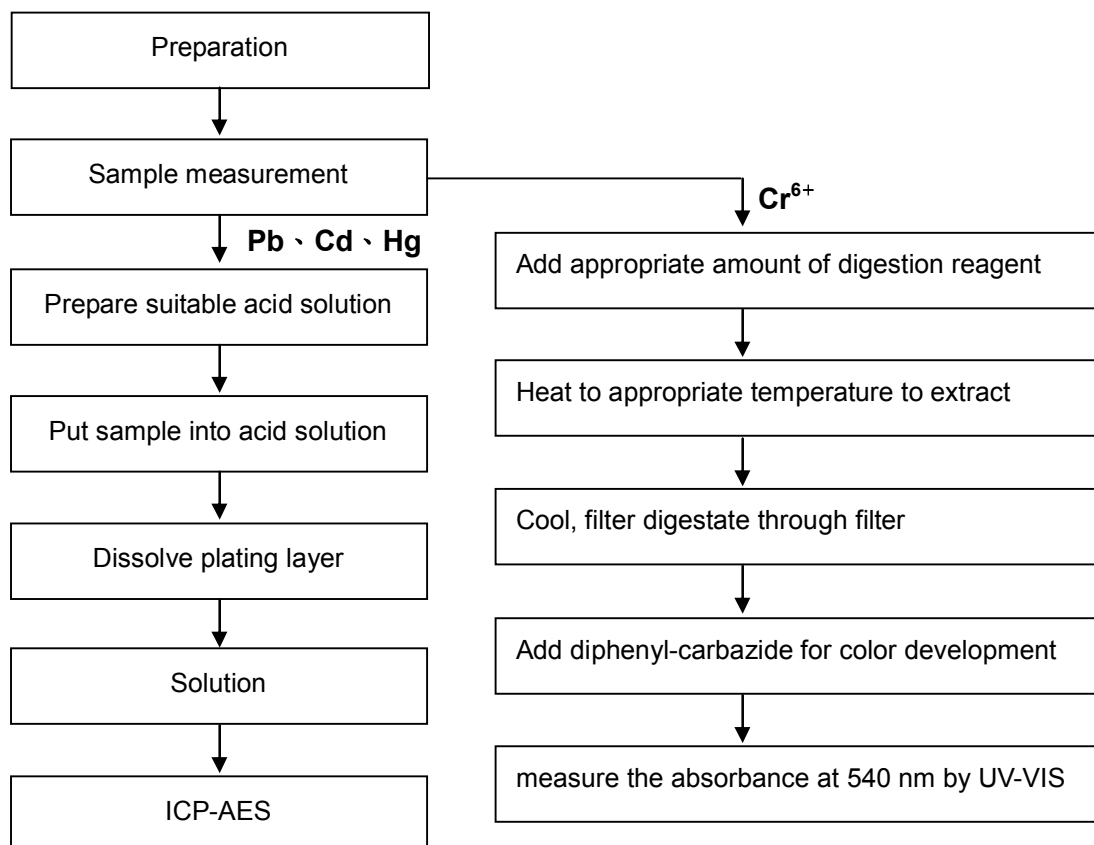
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(R. O. C.)

No1



- 1) The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

### Flow Chart of Stripping method for metal analysis



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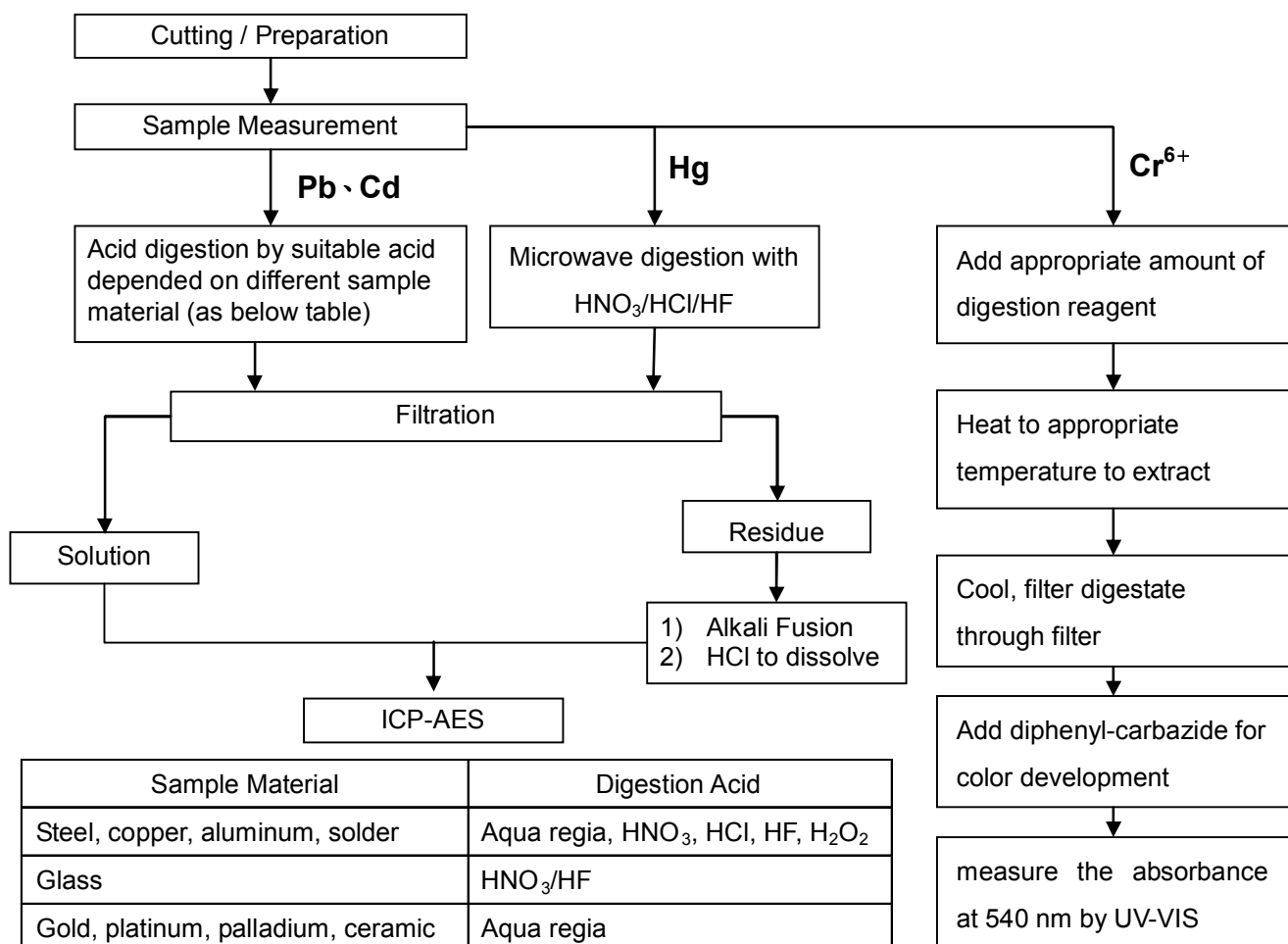
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(R. O. C.)



No2 and No.3

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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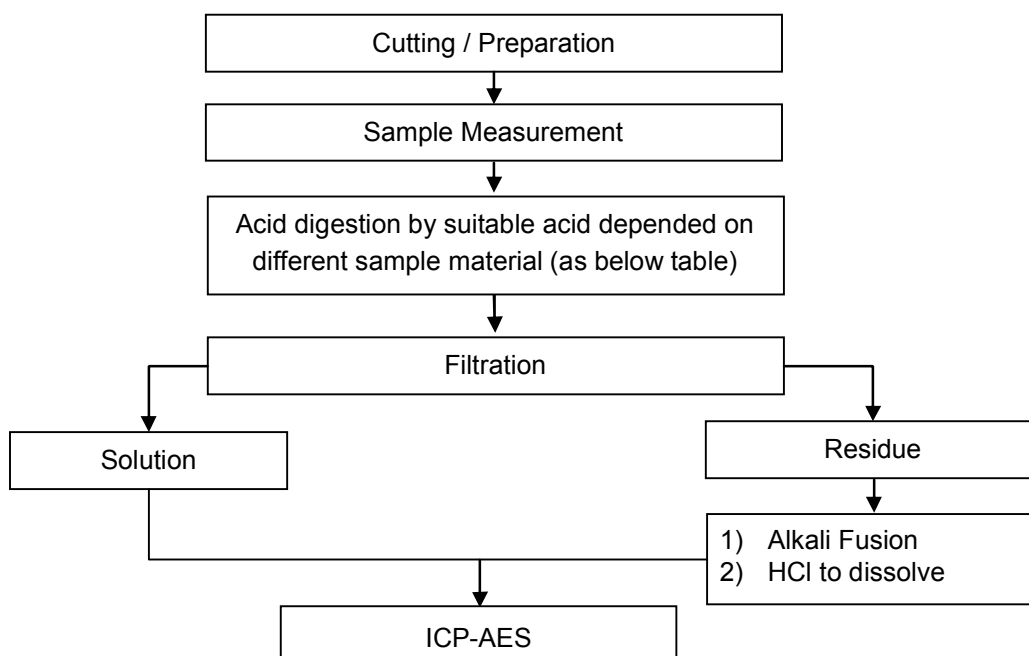
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(R. O. C.)



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

### Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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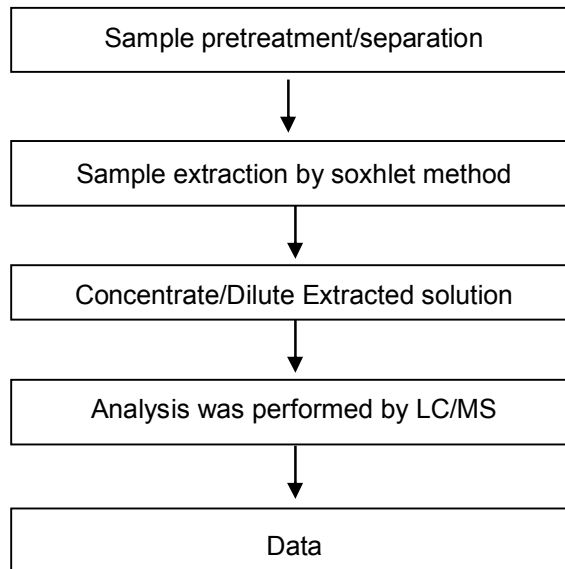
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(R. O. C.)



### Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

#### 【 Test Items: PFOS/PFOA 、 Benzotriazole 】



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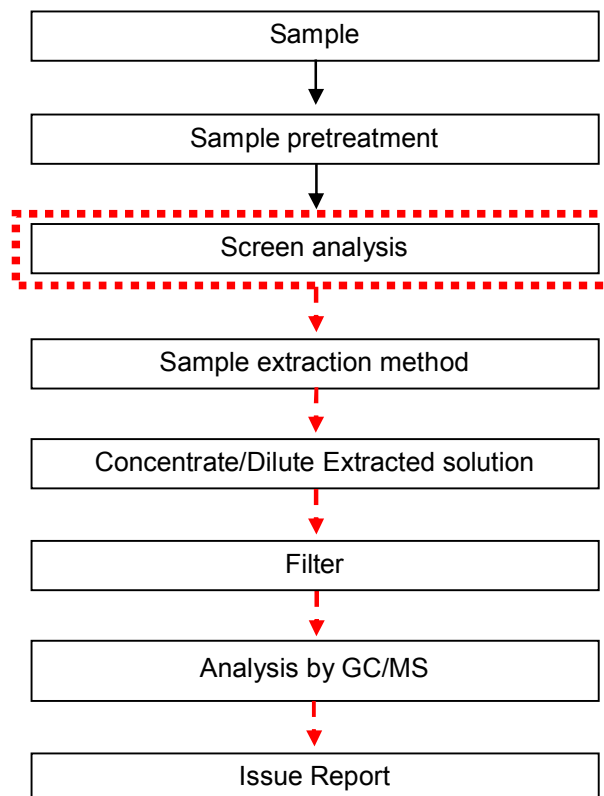


### Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

### 【 Test Items: PBB/PBDE, TBBP-A-bis 】

First testing process —> Optional screen process ..... Confirmation process - ->



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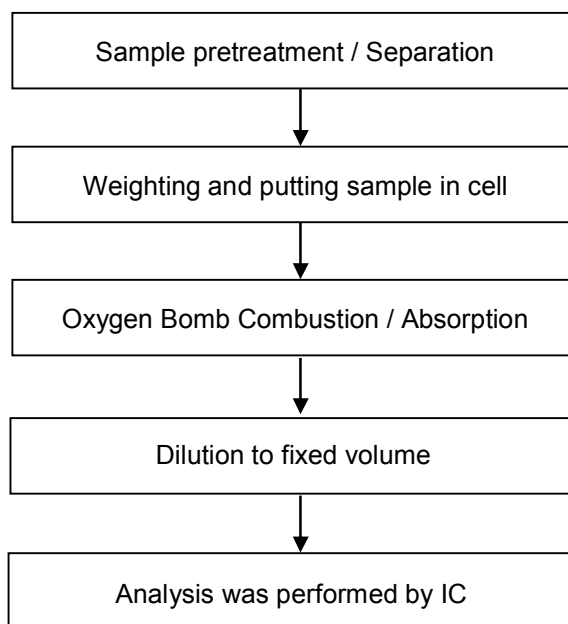
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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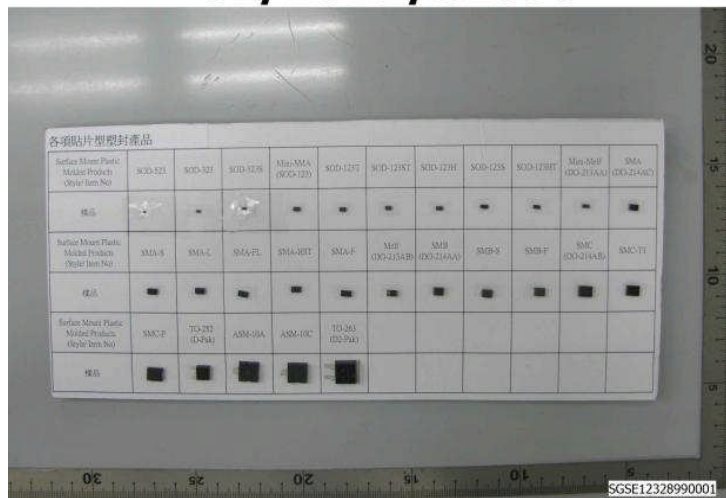
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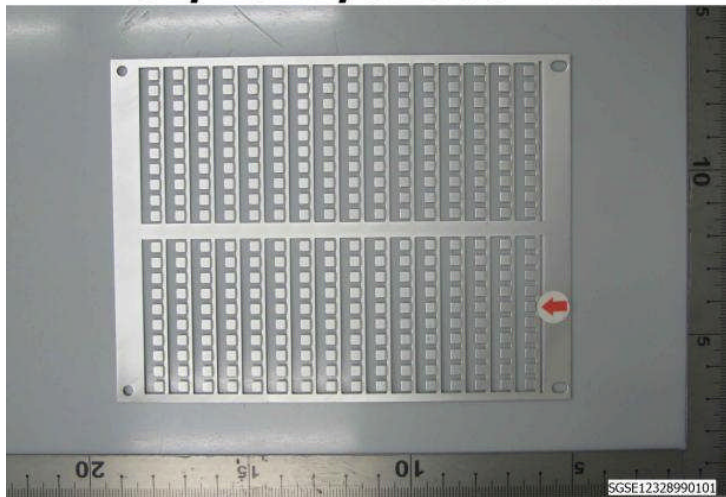


\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### CE/2012/32899



### CE/2012/32899 NO.1



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## Test Report

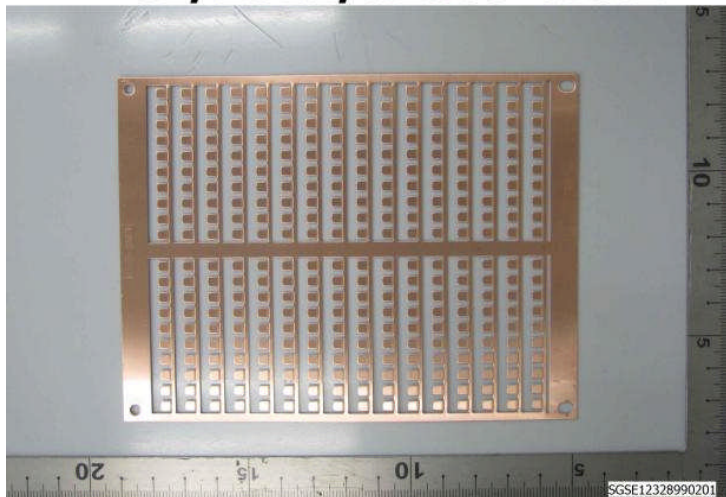
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COMCHIP TECHNOLOGY CO., LTD.

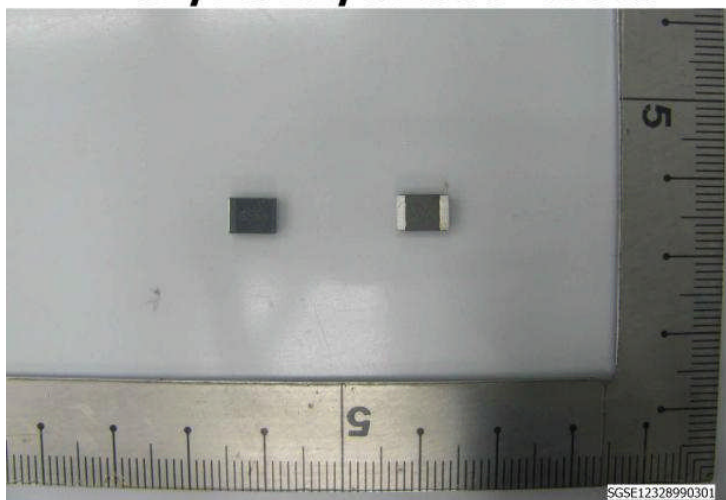
NO. 31, YONGXIN LN., YINGTAO RD., YINGGE DIST., NEW TAIPEI CITY 239, TAIWAN  
(R. O. C.)



### CE/2012/32899 NO.2



### CE/2012/32899 NO.3



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

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