

No.: ETR23301467

Date: 16-Mar-2023

Page: 1 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

### The following sample(s) was/were submitted and identified by the applicant as:

Sample Name : Style/Item No. : Other Info. :		SEMICONDUCTOR DEVICE (GREEN COMPOUND) SMA SMA \ SMB \ SMC \ SOD-123 \ SOD-123F \ SOD-123L \ SOD-123FL \ SOD-123G \ SOD-123M \ SOD-123S \ SOD-123ST \ SMAD \ SAME \ SMAF \ SMBF \ EBS \ TO-277 \ ITO-220AB \ ITO-220AC \ TO-220AB \ TO-220AC \ D2PAK(TO-263) \ DPAK(TO-252) \ IPAK(TO-251) \ I2PAK(TO-262) \ TO-247 \ TO-3P \ DO-41 \ DO-15 \ DO-201 \ DO-201AD \ DO-27 \ R-1 \ R-6 \ R-7 \ DO-35 \ MBS \ MBSG \ DF \ DB \ DFS \ DBS \ KBL \ WOB \ WOBM \ RS-1 \ RS-2 \ KBP \ GBP \ TBP \ 2GBJ \ BR3 \ KBU \ GBU-C \ GBU \ TBL \ TBU \ RS-5 \ MP6 \ 4GBJ \ BR6 \ GBJ \ KBJ \ ABS \ D3K \ DBM \ MBF \ MBM \ GBPC \ KBPC \ DBF \ GBL \ ABH \ ABS \ DO-218 \ PPAK5X6 SERIES \ MB SERIES \ MDI \ DIP \ TBS \ SDIP \ KBPM \ WOM
======================================	====	======================================
Testing Period	:	07-Mar-2023 to 14-Mar-2023
Test Requested :	(1)	As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
	(2)	Please refer to next pages for the other item(s).
Test Results :		Please refer to following pages.
Conclusion :	(1)	Based on the performed tests on submitted sample(s) and the declaration from the applicant, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU with the exemption of Annex III 7(a) and 7(c)-I [No.1].

Troy Chang / Department Malager Signed for and on behalf SĞS TAIWAN LTD. Chemical Laboratory - Taipei



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No.: ETR23301467

Date: 16-Mar-2023

Page: 2 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

### **Test Part Description**

- No.1 : BLACK BODY
- No.2 : PLATING LAYER OF SILVER COLORED METAL PIN
- No.3 : BASE MATERIAL OF SILVER COLORED METAL PIN
- No.4 : SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER)

### Test Result(s)

Test Item(s)	Method	Unit	Unit MDL		Result					
				No.1	No.2	No.3	No.4			
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed	mg/kg	2	n.d.				100		
Lead (Pb)	by ICP-OES.	mg/kg	2	22500				(*E)		
Mercury (Hg)	With reference to IEC 62321-4: 2013 + AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.				1000		
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7- 2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.				1000		
Cadmium (Cd)	IEC 62321-5: 2013 application of modified digestion by	mg/kg	2		n.d.			100		
Lead (Pb)	surface etching, analysis was performed by ICP-OES.	mg/kg	2		16.6			1000		
Mercury (Hg)	IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.	mg/kg	2		n.d.			1000		
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-7- 1: 2015, analysis was performed by UV-VIS.	µg/cm²	0.1		n.d.	n.d.		-		
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed	mg/kg	2			n.d.		100		
Lead (Pb)	by ICP-OES.	mg/kg	2			15.5		1000		

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No.: ETR23301467

Date: 16-Mar-2023

Page: 3 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

Test Item(s)	Method	Unit	MDL	Result				Limit
				No.1	No.2	No.3	No.4	
Mercury (Hg)	With reference to IEC 62321-4:	mg/kg	2			n.d.		1000
	2013+ AMD1: 2017, analysis							
	was performed by ICP-OES.							
Monobromobiphenyl		mg/kg	5	n.d.			n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.			n.d.	-
Tribromobiphenyl	1	mg/kg	5	n.d.			n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.			n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.			n.d.	-
Hexabromobiphenyl	1	mg/kg	5	n.d.			n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.			n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.			n.d.	-
Nonabromobiphenyl	]	mg/kg	5	n.d.			n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.			n.d.	-
Sum of PBBs	With reference to IEC 62321-6:	IEC 62321-6: ma/kal -		n.d.			n.d.	1000
Monobromodiphenyl ether	2015, analysis was performed by GC/MS.			n.d.			n.d.	-
Dibromodiphenyl ether	by GC/1013.			n.d.			n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.			n.d.	-
Sum of PBDEs		mg/kg	-	n.d.			n.d.	1000
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8:	mg/kg	50	n.d.			n.d.	1000
Dibutyl phthalate (DBP)	2017, analysis was performed	mg/kg	50	n.d.			n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)	by GC/MS.	mg/kg	50	n.d.			n.d.	1000
Diisobutyl phthalate (DIBP)	by GC/M3.	mg/kg	50	n.d.			n.d.	1000
Hexabromocyclododecane	With reference to IEC 62321-9:		20	n.d.			n.d.	-
(HBCDD) and all major	2021, analysis was performed							
diastereoisomers identified (α-	by GC/MS.							
HBCDD, β- HBCDD, γ- HBCDD)								
(CAS No.: 25637-99-4, 3194-55-6								
(134237-51-7, 134237-50-6,								
134237-52-8))								

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No.: ETR23301467

Date: 16-Mar-2023

Page: 4 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

Test Item(s)	Method	Unit	MDL	DL Result				Limit
				No.1	No.2	No.3	No.4	
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.			n.d.	-
Chlorine (Cl) (CAS No.: 22537-15- 1)	With reference to BS EN 14582: 2016, analysis was	mg/kg	50	79.4			n.d.	-
Bromine (Br) (CAS No.: 10097-32- 2)	performed by IC.	mg/kg	50	n.d.			n.d.	-
lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.			n.d.	-
PFOS and its salts (CAS No.: 1763- 23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was	mg/kg	0.01	n.d.			n.d.	-
PFOA and its salts (CAS No.: 335- 67-1 and its salts)	performed by LC/MS/MS.	mg/kg	0.01	n.d.			n.d.	-
PFOS and its salts (CAS No.: 1763- 23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was	µg/m²	0.5		n.d.			-
PFOA and its salts (CAS No.: 335- 67-1 and its salts)	performed by LC/MS/MS.	µg∕m²	0.5		n.d.			-
Beryllium (Be) (CAS No.: 7440-41- 7)	With reference to US EPA	mg/kg	2	n.d.			n.d.	-
Antimony (Sb) (CAS No.: 7440-36- 0)	3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.			n.d.	-

Note :

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. "---" = Not Conducted
- 6. PFOS and its salts including :

CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.

7. PFOA and its salts including : CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

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No.: ETR23301467

Date: 16-Mar-2023

Page: 5 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

8. (#2) =

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu$ g/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.

9. Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

10. (\*E): By client's claim, it is on the RoHS exemption list.

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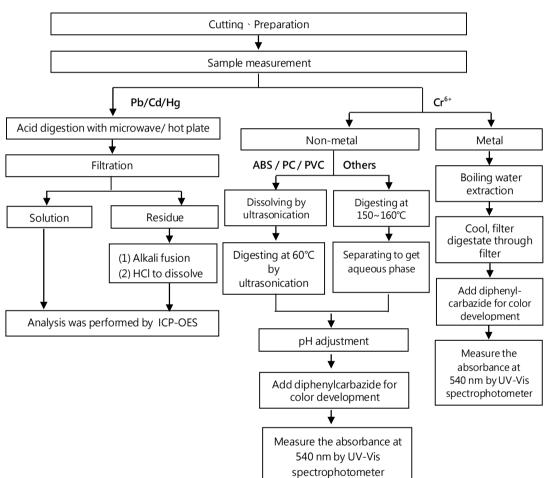
Page: 6 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

#### Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.



( Cr<sup>6+</sup> test method excluded )

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Date: 16-Mar-2023

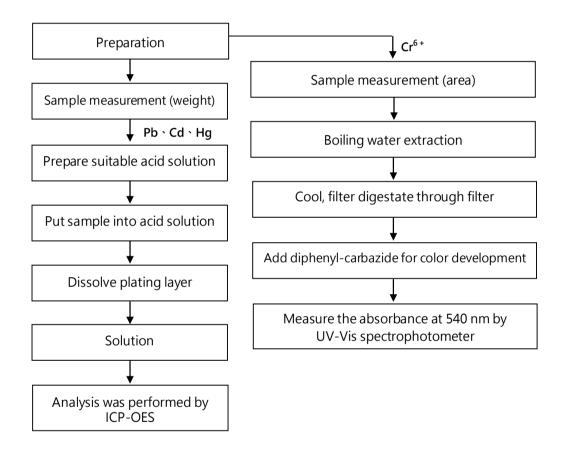
Page: 7 of 15

ERIS TECHNOLOGY CORPORATION

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### Flow chart of stripping method for metal analysis

The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. ( $Cr^{6+}$  test method excluded)



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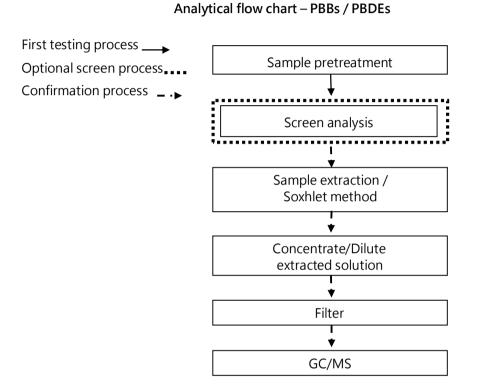
No.: ETR23301467

Date: 16-Mar-2023

Page: 8 of 15

ERIS TECHNOLOGY CORPORATION

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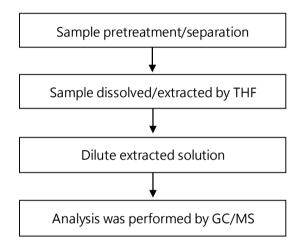
Page: 9 of 15

ERIS TECHNOLOGY CORPORATION

6F., NO. 17, LANE 155, SEC. 3, BEI-SHEN RD., SHEN KENG DIST., NEW TAIPEI CITY, TAIWAN

#### Analytical flow chart - Phthalate

#### [Test method: IEC 62321-8]



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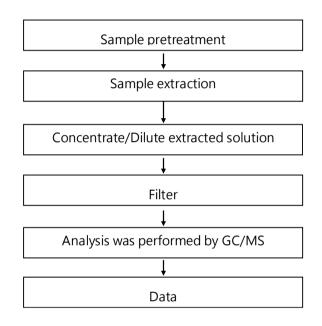
Date: 16-Mar-2023

Page: 10 of 15

ERIS TECHNOLOGY CORPORATION

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#### Analytical flow chart - HBCDD



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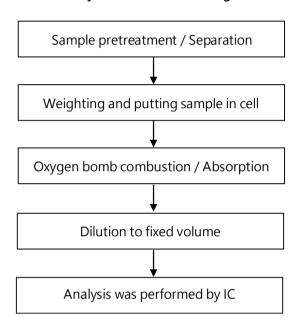
No.: ETR23301467

Date: 16-Mar-2023

Page: 11 of 15

ERIS TECHNOLOGY CORPORATION

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#### Analytical flow chart - Halogen

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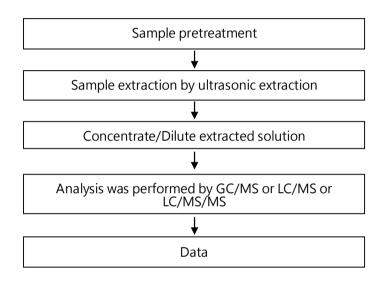
Date: 16-Mar-2023

Page: 12 of 15

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#### Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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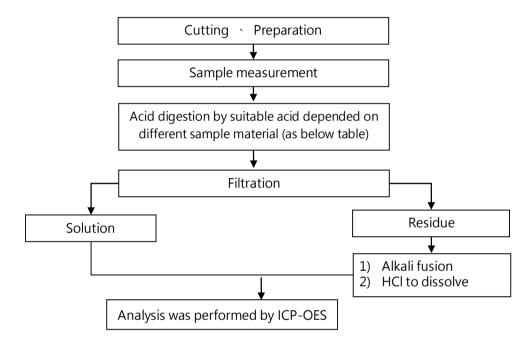
Page: 13 of 15

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### Flow chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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> , HCI				
Others	Added appropriate reagent to total digestion				

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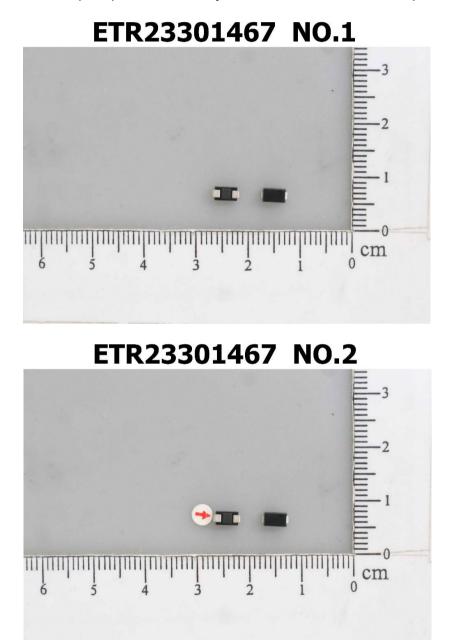
Date: 16-Mar-2023

Page: 14 of 15

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



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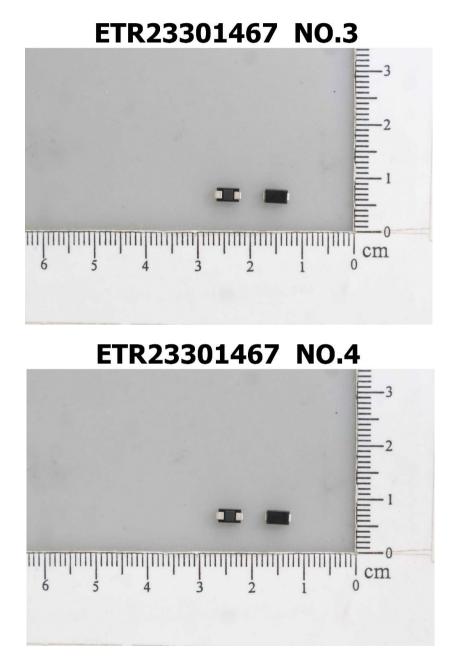
No.: ETR23301467

Date: 16-Mar-2023

Page: 15 of 15

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\*\* End of Report \*\*

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