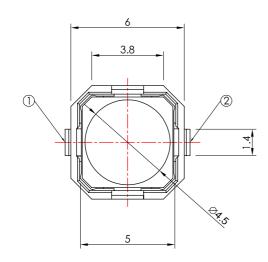
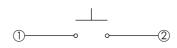
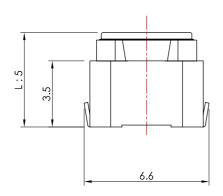
本圖面若與目錄之規格尺寸不符,以本圖面規格尺寸為主。 Below is our main specification if different from catalog.

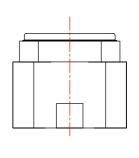
RoHS compliant



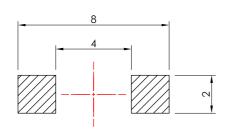


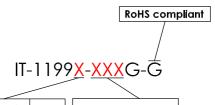






P.C.B. LAYOUT





MODEL NO.	L	
	4.3	
Α	5.0	
В	5.2	

OPERATING FORCE
250, 300 , 350

SPECIFICATION

Rating: 50mA 16V DC. Function: OFF-(ON). Travel: 1.3±0.3mm.

Contact resistance: 500mΩ Max.(initial)

Operating force: 250±70g.

Minimum load: 10mA 3.3V DC.(reference only)

Operating Life: 100,000 Cycles Min.

Soldering temperature: 250°C Max. for 3 Sec.

Soldering time: 1 time only.

Note: Unwashable, don't be immerged by epoxy and organic solvent.

CV3.1	A		
CV3.0	無	新繪製	2011.06.30
版本 VER.	符號 SYMBOL	修 改 內 容 ALTERATION	更新日期 DATE

產品 PRODUCT Tact Switch 型號 MODEL NO. IT-1199A-250G-G

比例 SCALE		5:1	單位 UNIT		mm
公差 TOLERANCE	.Χ	<=±0.3mm, .XX=±		±0.2mm	
製圖 DRAWN BY		核 CHEC		AP	主管 PROVED BY
Lang		9 Pe 19	il hen	ના	largaret



一綺電子企業股份有限公司

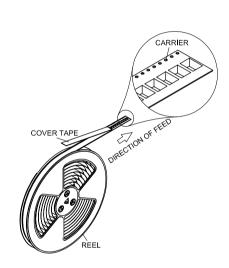
總公司: 110 合北市信義路四段415號12樓之2 12F-2 NO. 415, SEC. 4, HSIN YI ROAD, TAIPEI, TAIWAN TEL: 886-2-27290229(Rep.) FAX: 886-2-27582086

URL: http://www.switronic.com.tw E-MAIL: switches@ms36.hinet.net

MATERIAL Cover tape: Polyester. Carrier: Polystyrene. Reel: Plastic.

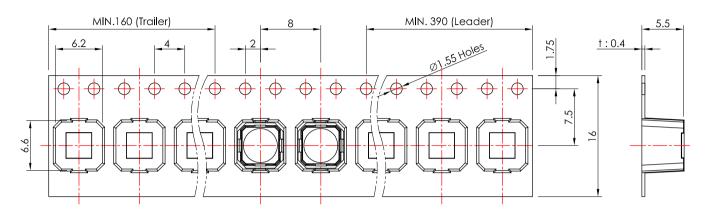
本圖面若與目錄之規格尺寸不符,以本圖面規格尺寸為主。 Below is our main specification if different from catalog.

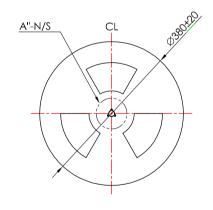
RoHS compliant



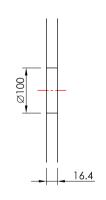
Packing for reel: 2,000 pcs / reel. Blue reel, transparent tape.

Chen





±0.3mm



DETAIL A" (N/S)



SNITRON/C 一綺
JUL 29. 2011
ISSUED &
GIVEERING OF

CV3.1	A		
CV3.0	無	新繪製	2011.07.29
版本 VER	符號 SYMBOL	修 改 內 容 ALTERATION	更新日期 DATE

產品 型號 IT-1199X T&R **Tact Switch PRODUCT** MODEL NO. 核圖 CHECKED BY 主管 APPROVED BY 單位 UNIT 製圖 DRAWN BY mm 比例 SCALE Margaret neil 2:1 公差

TOLERANCE





一綺電子企業股份有限公司

總公司: 110 合北市信義路四段415號12樓之2 12F-2 NO. 415, SEC. 4, HSIN YI ROAD, TAIPEI, TAIWAN TEL: 886-2-27290229(Rep.) FAX: 886-2-27582086

URL: http://www.switronic.com.tw E-MAIL: switches@ms36.hinet.net

一綺電子企業股份有限公司 SWITRONIC INDUSTRIAL CORP.

MODEL NO: IT-1199 Series

CV3.0

V.DATE:2011/06/30

1. Features

- 1-1 Horizontal mounting type and small, low profile design..
- 1-2 Reflow solderable.
- 1-3 Soft feeling

2. Applications

From the operating various of Auto Mobile, Car AV equipments..

3. Temperature range

Parameter	Value	Unit
Operating temperature range	-40 ~ 80	${\mathbb C}$
Preservative temperature range	-5 ~ 50	${\mathbb C}$

4. Standard conditions

Parameter	Value	Unit
Ambient temperature	5 ~ 35	${\mathbb C}$
Relative humidity	45 ~ 85	% Rh
Air pressure	860 ~ 1060	mBar

If doubt arises on the design based on the measured values under the above mentioned conditions, the following conditions shall be employed.

Parameter	Value	Unit
Ambient temperature	18 ~ 22	$^{\circ}$ C
Relative humidity	60 ~ 70	% Rh
Air pressure	860 ~ 1060	mBar

5. Contact arrangement

1 Pole / 1 Throw

6. Type of actuating

Tactile feedback



7. Rating

Maximum rating	16 V (DC) , 50 mA
Minimum rating	3.3 V (DC) , 10mA

8. Electrical characteristics

No	Item	Test conditions	Evaluation
1	Contact resistance	1-1 Push force : Operating force X 2 1-2 Small current contact resistance meter : 1Khz , 20mV , 5 50mA	500mΩ MAX.
2	Insulation resistance	100V (DC) / 1 Minute (Between terminal)	100MΩ MIN.
3	Dielectric withstand voltage	AC 250V (50Hz OR 60Hz) / 1 Minute (Between terminal)	No break down
4	Bouncing	3 to 4 Operations per second Switch Oscilloscope 10kOhm ImA (Switch bouncing circuit)	On / Off : 10ms MAX.

9. Mechanical characteristics

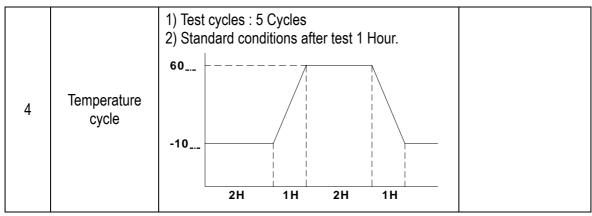
No	Item	Test conditions	Evaluation
1	Operating force	Force	Push force : As per assembly drawing Return force : 10gf MIN.

2	Travel	Operating force x 2	As per assembly drawing
3	Stem strength	3Kgf for 15 sec.	No damage (Electrical and Mechanical)
4	Soldering heat test	Mounted the switch on P.W.B by adhesive. 1) Reflow process one time. 2) Standard conditions after test : 24 Hours	No damage (Electrical and Mechanical)

10. Environmental

No	Item	Test conditions	Evaluation
1	Storage heat	1) +80 ± 2 , 96 Hours 2) Standard conditions after test 1 Hour.	After the test the part shall satisfy. Specifications
2	Storage cold	1) -30 ± 2 , 96 Hours 2) Standard conditions after test 1 Hour.	without any degradation in appearance and
3	Humidity	1) 40 ± 2 , 90 95% Rh , 96 Hours 2) Standard conditions after test 1 Hour.	performance.





11. Endurance

No	Item	Test conditions	Evaluation
1	Operating life	1) 5V (DC), 50mA 2) 15 20 Cycles/Min, Maximum value of operating force. 3) 100,000 Cycles MIN.	After the test the part shall satisfy.
2	Salt spray	 Temperature: 35 ± 2 Cycle: 8 Hours testing (3 Times) and 1 Hour stop. Based on total 24 hours. Salt solution concentration: 5 ± 1% by weight. 	Specifications without any degradation in appearance and performance.

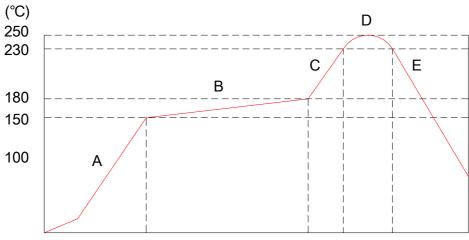
Notes

As this product is not protected from foreign material entering, please make sure that any foreign material (E.G Magnetic powder, Washing solvent, Flux, Corrosive gas) DO NOT enter this product in your production precess.



12. Solder conditions

12-1 SMD Reflow



Room temperature

(sec)

Parts	Temperature (°C)	Time at temperature(sec)	Treatments
А	NO - 150		
В	150 - 180	90 ±30	Pre-heating zone
С	180 - 230		
D	230 – 250 - 230	30 ± 10 (Peak : 3 MAX.)	Soldering zone
Е	230 to NO		Cooling zone

** NO : Normal conditions

12-2 Solder cream thickness

 0.15 ± 0.03

12-3 Manual soldering

12-3-1 Iron tip temperature : 350 $~\pm\,5^{\circ}\!\!\!\subset MAX.$

12-3-2 Duration: 3sec MAX.



一綺電子企業股份有限公司 SWITRONIC INDUSTRIAL CORP.

Material Certificate Sheet

Product	Tact Switch
Model No.	IT-1199 Series

CV3.0 DATE: 2011.07.04

	- · · · ·		C V 3.0			DATE . 2011.07.04
No.	Parts Name	Material	Specification	Remark	LAB	Test Report No.
1	Stem	Polymer	KEPAMID 2330GFH NT		SGS	F690501/LF-CTSAYAA10-36522
2	Rubber	Silocone	SE 4708		SGS	F690501/LF-CTSAYAA11-16240
3	Contact	Phosphor bronze-Ag	C5210	Silver Cyanide	SGS	C5210 : F690501/LF-CTSAYAU10-05135 Silver Cyanide : F690501/LF-CTSAYAA11- 12813
4	Terminal	Brass	C2680	Silver Cyanide	SGS	C2680 : F690501/LF-CTSAYAU10-05130 Silver Cyanide : F690501/LF-CTSAYAA11- 12813
5	Case	Liquid Crystal Polymer	ZENITE 6130L WT		SGS	F690501/LF-CTSAYAA11-02140
6						
7						
8						
9						
10						

一綺電子企業股份有限公司 SWITRONIC INDUSTRIAL CORP.

入料包裝方式 Packing for Products	
□管裝方式 Packing for tube	
成品 Products 透明管包装 Packing for tube	
Packing for tube : pcs / tube.	
■捲裝方式 Packing for reel	
成品 Products	
Packing for reel:	

一綺電子企業股份有限公司 SWITRONIC INDUSTRIAL CORP.

產品綠色環保標章

"G" Mark for All RoHS Compliant Products

環保標章式樣

Initial "G": Standing for Green Label



外箱標示

Marked on The Outside of Carton As:







To: KOREA ENGINEERING PLASTICS

402, Chupal-ri Paengsung-ub Pyeongtaek-city GYEONGGI-DO 451-805

korea

The following merchandise was submitted and identified by the client as :

SGS File No. : AYAA10-36522

Product Name : KEPAMID 2330GFH NT

Item No./Part No. : N/A

Client Reference Data : 2315GF NT, 2315GHS NT, 2320GF NT, 2325GFH NT, 2325GFS NT,

2330GF NT, 2330GFH NT02, 2333GFH NT02, 2335GFH NT, 2345GF NT

Received Date : Oct. 26, 2010

Test Period : Oct. 27, 2010 to Oct. 29, 2010

Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results

Test Results : For further details, please refer to following page(s)

Comments: The client has confirmed that the described item No.s/part No.s and client reference data are the

same with the sample submitted.

SGS Testing Korea Co. Ltd.

Issued Date: October 29, 2010

Page 1 of 4

Timothy Jeon Jinhee Kim Cindy Park

Jerry Jung/ Testing Person

Jeff Jang / Chemical Lab Mgr



Sample No. : AYAA10-36522.001

Sample Description : KEPAMID 2330GFH NT

Item No./Part No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	US EPA 3051, US EPA 6010B(1996), ICP	0.5	N.D.
Lead (Pb)	mg/kg	US EPA 3051, US EPA 6010B(1996), ICP	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3051, US EPA 6010B(1996), ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to US EPA 3060A(1996), US EPA 7196A(1992), UV	1	N.D.

Issued Date: October 29, 2010

Page 2 of 4

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) Negative = Undetectable / Positive = Detectable

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Issued Date: October 29, 2010 Page 3 of 4



NOTE: (1) N.

- (1) N.D. = Not detected.(<MDL)
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- (3) MDL = Method Detection Limit
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- (5) ** = Qualitative analysis (No Unit)
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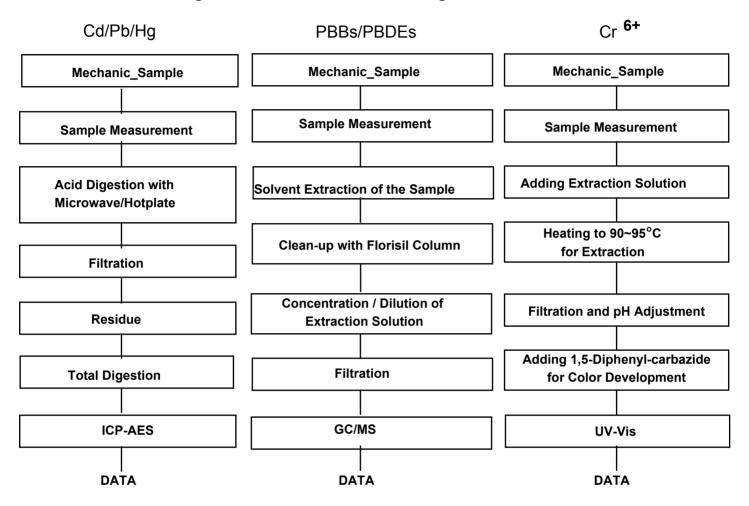
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Issued Date: October 29, 2010 Page 4 of 4

Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+/PBBs&PBDEs Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief: Gilse Lee

*** End ***

NOTE:

- (1) N.D. = Not detected.(<MDL)
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- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) Negative = Undetectable / Positive = Detectable

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To: **CREATIVE ELECTRONICS CO., LTD**

> Rm 317 Namkwang centlex Cheongcheon-dong Bupyeong-gu **INCHEON** Korea

The following merchandise was submitted and identified by the client as :

: AYAA11-16240 SGS File No.

: SE 4708 **Product Name**

: CTT-1199 Rubber Item No./Part No.

Received Date : 2011. 05. 18

: 2011. 05. 19 to 2011. 05. 23 **Test Period**

: SAMSUNG,LG Buyer(s)

Test Results : For further details, please refer to following page(s)

: SGS Korea tested the sample(s) selected by applicant with following results. **Test Performed**

SGS Korea Co. Ltd.

Page 1 of 5

Issued Date: 2011. 05. 23

Timothy Jeon Jinhee Kim **Cindy Park Jerry Jung/ Testing Person**

Jeff Jang / Chemical Lab Mgr



Sample No. : AYAA11-16240.001

Sample Description : SE 4708

Item No./Part No. : CTT-1199 Rubber

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008, UV-VIS	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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Issued Date: 2011. 05. 23

Page 2 of 5



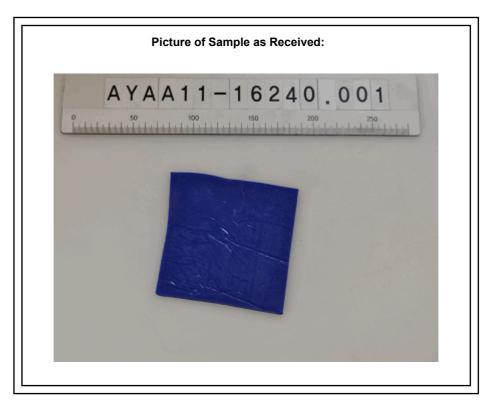
Sample No. : AYAA11-16240.001

Sample Description : SE 4708

Item No./Part No. : CTT-1199 Rubber

Halogen Contents

Test Items	Unit	Test Method	MDL	Results
Fluorine(F)	mg/kg	With reference to ASTM D 7359-08, IC	30	N.D.
Chlorine(Cl)	mg/kg	With reference to ASTM D 7359-08, IC	30	N.D.
Bromine(Br)	mg/kg	With reference to ASTM D 7359-08, IC	30	N.D.
lodine(I)	mg/kg	With reference to ASTM D 7359-08, IC	50	N.D.



NOTE:

- (1) N.D. = Not detected.(<MDL)
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- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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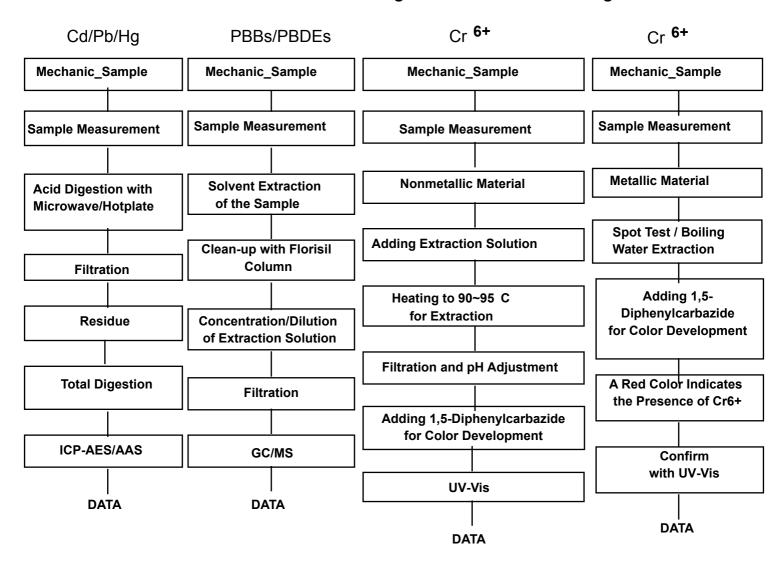
Issued Date: 2011. 05. 23

Page 3 of 5



Issued Date: 2011. 05. 23 Page 4 of 5

Flow Chart for RoHS:Cd/Pb/Hg/Cr⁶⁺/PBBs&PBDEs Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief: Gilsae Yi

NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
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Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

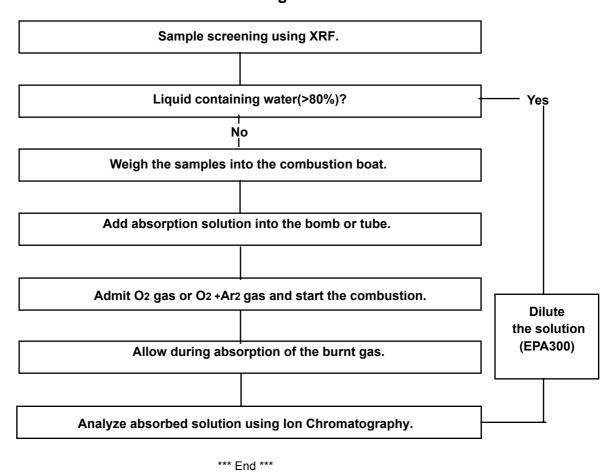
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Flow Chart for Halogen Test



Issued Date: 2011. 05. 23

Page 5 of 5

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NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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To: POONGSAN CORPORATION

611 Daejung-ri Onsan-eup Ulju

ULSAN KOREA

The following merchandise was submitted and identified by the client as :

SGS File No. : AYAU10-05135

Product Name : C5210 Item No./Part No. : N/A

Received Date : Oct. 27, 2010

Test Period : Oct. 28, 2010 to Nov. 03, 2010

Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results

Test Results: For further details, please refer to following page(s)

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the

RoHS Directive 2002/95/EC and its subsequent amendments.

SGS Testing Korea Co. Ltd. / Gimhae Laboratory

Issued Date: November 03, 2010 Page 1 of 3

Sharpless Park
Annie Lim

Jonadan Lee /Testing Person

Thomas Hwang / Gimhae Lab. Mgr



Issued Date: November 03, 2010 Page 2 of 3

Sample No. : AYAU10-05135.001

Sample Description : C5210
Item No./Part No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	1	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	34.0
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI) By boiling water extraction*	-	With reference to IEC 62321:2008	-	Negative

Picture of Sample as Received:

AYA U10-05135.001

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

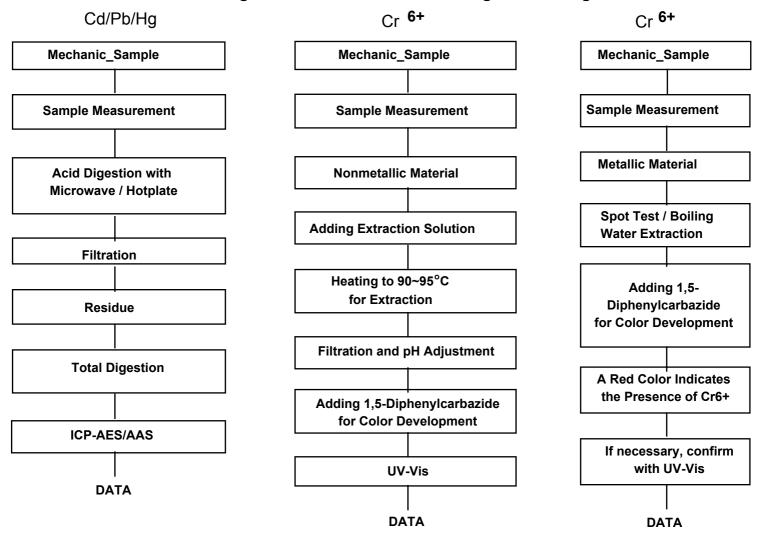
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Issued Date: November 03, 2010 Page 3 of 3

Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+ Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief: Sharpless Park

*** End ***

NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

SGS Testing Korea Co.,Ltd.

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To: SHIN POONG METAL CO., LTD

#223-408 Seoknam-dong Seo-gu

INCHEON 404-220

Korea

The following merchandise was submitted and identified by the client as :

SGS File No. : AYAA11-12813

Product Name : Silver Cyanide

Item No./Part No. : N/A

Received Date : 2011. 04. 18

Test Period : 2011. 04. 19 to 2011. 04. 21

Test Results : For further details, please refer to following page(s)

Test Performed : SGS Korea tested the sample(s) selected by applicant with following results.

Timothy Jeon
Jinhee Kim
Cindy Park

Jerry Jung/ Testing Person

SGS Korea Co. Ltd.

Page 1 of 3

Issued Date: 2011. 04. 21

Jeff Jang / Chemical Lab Mgr



Sample No. : AYAA11-12813.001

Sample Description : Silver Cyanide

Item No./Part No. : N/A

Comments: Material is Powder.

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008, UV-VIS	1	N.D.



NOTE: (1) N.D. = Not detected.(<MDL)

- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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Issued Date: 2011. 04. 21

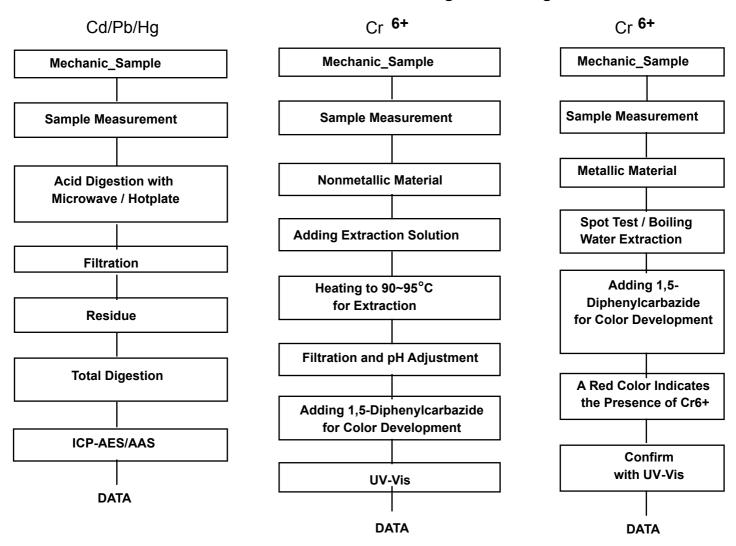
Page 2 of 3



Flow Chart for RoHS:Cd/Pb/Hg/Cr6+ Testing

Issued Date: 2011. 04. 21

Page 3 of 3



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief: Gilsae Yi

*** End ***

NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

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To: POONGSAN CORPORATION

611 Daejung-ri Onsan-eup Ulju

ULSAN KOREA

The following merchandise was submitted and identified by the client as:

SGS File No. : AYAU10-05130

Product Name : C2680 Item No./Part No. : N/A

Received Date : Oct. 27, 2010

Test Period : Oct. 28, 2010 to Nov. 03, 2010

Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results

Test Results: For further details, please refer to following page(s)

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the

RoHS Directive 2002/95/EC and its subsequent amendments.

SGS Testing Korea Co. Ltd. / Gimhae Laboratory

Issued Date: November 03, 2010 Page 1 of 3

Sharpless Park
Annie Lim

Jonadan Lee /Testing Person

Thomas Hwang / Gimhae Lab. Mgr



Issued Date: November 03, 2010 Page 2 of 3

Sample No. : AYAU10-05130.001

Sample Description : C2680 Item No./Part No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	1	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	21.0
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI) By boiling water extraction*	-	With reference to IEC 62321:2008	-	Negative

Picture of Sample as Received:



NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

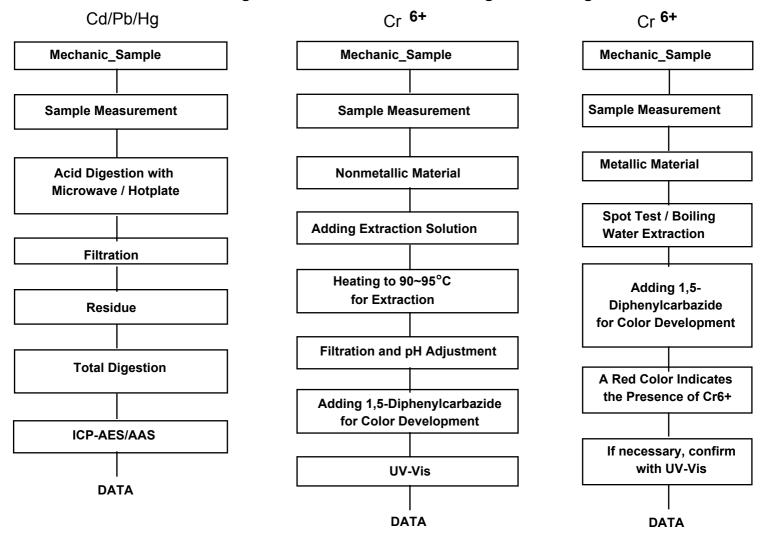
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Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 180 days only.



Issued Date: November 03, 2010 Page 3 of 3

Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+ Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief: Sharpless Park

*** End ***

NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
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To: NEOCHEM CO., LTD.

RM1339 Samsung Lacville 751 Janghang-dong Ilsandong-gu, Goyang-city GYEONGGI-DO 410-380

Korea

The following merchandise was submitted and identified by the client as :

SGS File No. : AYAA11-02140
Product Name : ZENITE 6130L WT

Item No./Part No. : N/A

Received Date: Jan. 18, 2011

Test Period : Jan. 19, 2011 to Jan. 21, 2011

Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results

Test Results : For further details, please refer to following page(s)

Buyer(s) : SAMSUNG,LG

SGS Testing Korea Co. Ltd.

Page 1 of 4

Issued Date: January 21, 2011

Timothy Jeon
Jinhee Kim
Cindy Park
Jerry Jung/ Testing Person

Jeff Jang / Chemical Lab Mgr



Test Report No. F690501/LF-CTSAYAA11-02140 Issued Date: January 21, 2011

Sample No. : AYAA11-02140.001

Sample Description : ZENITE 6130L WT

Item No./Part No. : N/A

Comments : Material is LCP Resin.

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008, UV-VIS	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

(5) ** = Qualitative analysis (No Unit)

(6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

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AYAA11-02140.001

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Issued Date: January 21, 2011

Page 3 of 4

NOTE: (1) N.D. = Not detected.(<MDL)

(2) mg/kg = ppm

(3) MDL = Method Detection Limit

(4) - = No regulation

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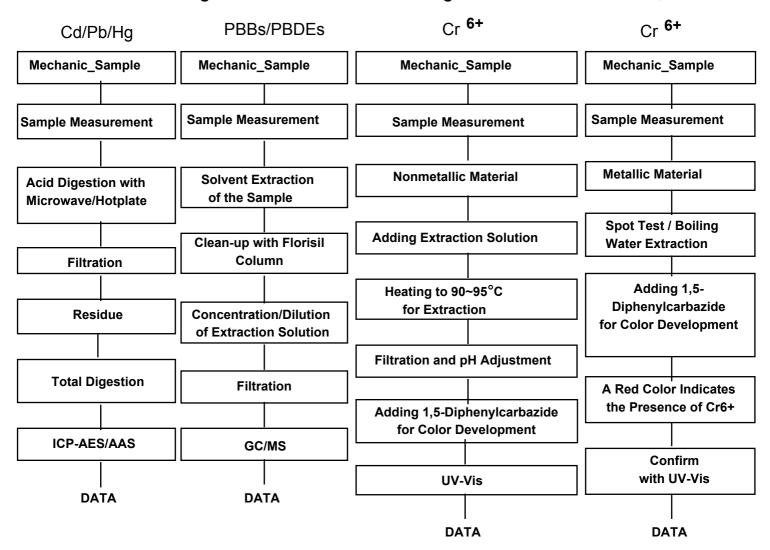
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Issued Date: January 21, 2011

Page 4 of 4

Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+/PBBs&PBDEs Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Section Chief: Gilsae Yi

*** End ***

NOTE:

- (1) N.D. = Not detected.(<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) * = Boiling-water-extraction:

Negative = Absence of CrVI coating

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