




樣品承認書 

APPROVAL SHEET

客戶名稱(CUSTOMER) : LOMEX KFT

客戶料號 (PART NO.) : _____

客戶承認簽名處 Approval Signature

品 名(TYPE) : CRYSTAL

規格(DESCRIPTION) : XTAL 24.000 MHZ FUND SMD 5*3.2 20PF

料 號(PART NO.) : NXH24.000AC20F

日 期(DATE) : 2011.10.25

CHECKED	PREPARED

津錠石英科技股份有限公司

JENJAAN QUARTEK CORPORATION.

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創群有限公司

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TEL: 86-769-83119395 FAX: 86-769-83116467

昆山分公司

TEL: 86-512-573798-78~79~80 FAX: 86-512-55210156

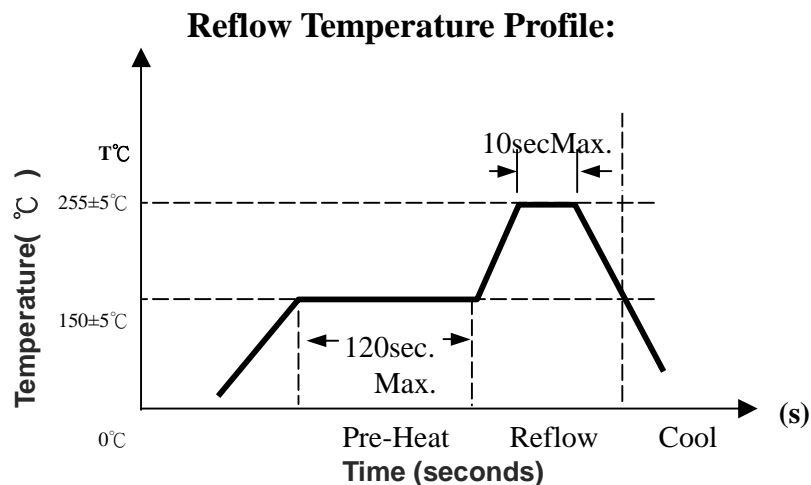
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 E-mail: alliedj@pub.dgnet.gd.cn

CRYSTAL SPECIFICATION

- | | |
|-------------------------------------|---|
| 1. HOLDER TYPE | : SMD CRYSTAL |
| 2. FREQUENCY | |
| 2-1) NOMINAL FREQUENCY | : 24.000 MHz |
| 2-2) MODE | : FUNDAMENTAL |
| 2-3) FREQUENCY TOLERANCE | : ± 30 ppm AT 25°C |
| 2-4) FREQUENCY STABILITY | : ± 30 ppm (-20°C TO +70°C) |
| 3. ELECTRICAL SPECIFICATIONS | |
| 3-1) TEST CIRCUIT | S&A 250B TEST INSTRUMENT |
| 3-2) LOAD CAPACITANCE | : 20 pF |
| 3-3) DRIVE LEVEL | : 10 μW |
| 3-4) EQUIVALENT SERIES RESISTANCE | : 70 Ω MAX |
| 3-5) SHUNT CAPACITANCE(C0) | : 7 pF MAX. |
| 4. ENVIRONMENTAL CONDITIONS | |
| 4-1) OPERATING TEMPERATURE RANGE | : -20°C TO +70°C |
| 4-2) STORAGE TEMPERATURE RANGE | : -40°C TO +85°C |
| 4-3) AGING RATE | : ± 3ppm / YEAR |
| 4-4) MECHANICAL SHOCK | : Withstand a drop from a height of 75cm onto hard wood board at least three times. |
| 4-5) VIBRATION TEST | : 10 TO 2000 Hz, amplitude 1.5mm sine wave, 3 directions each 2 hours. |
| 4-6) REFLOW CONDITION | : 255 ±5°C / 10 SEC. MAX. |

This is the recommendation for soldering or mounting the unit at less than 260°C for 10 seconds by hand or by reflow. An example of the infrared ray reflow temperature profile is shown as below. Heating the unit more than the recommended temperature may deteriorate the characteristics or damage the unit.

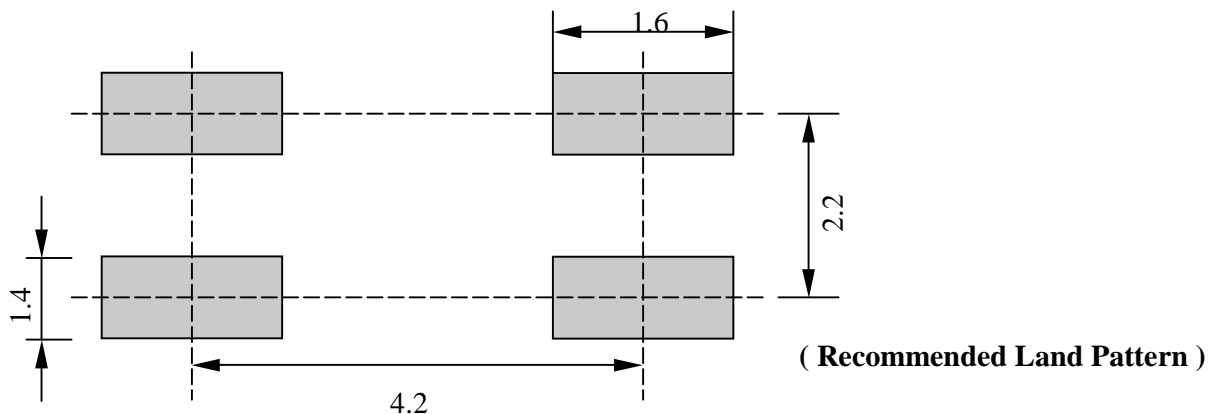
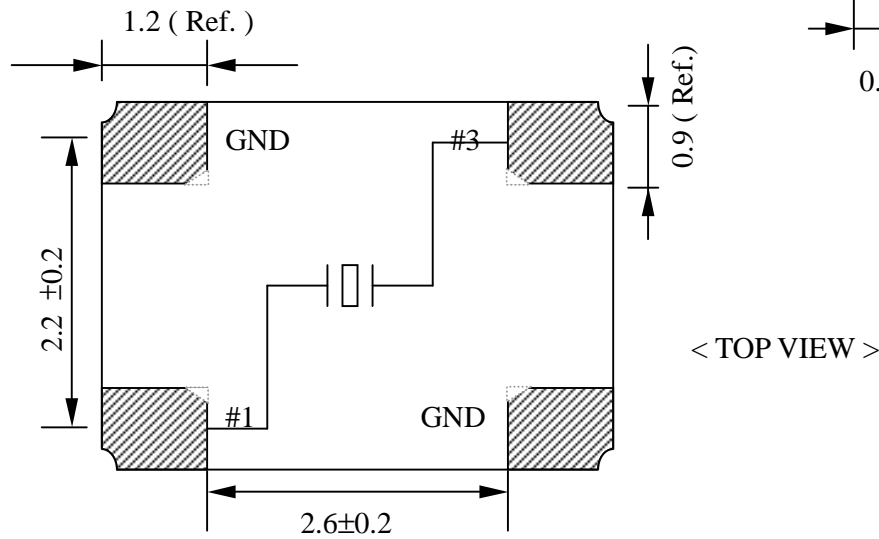
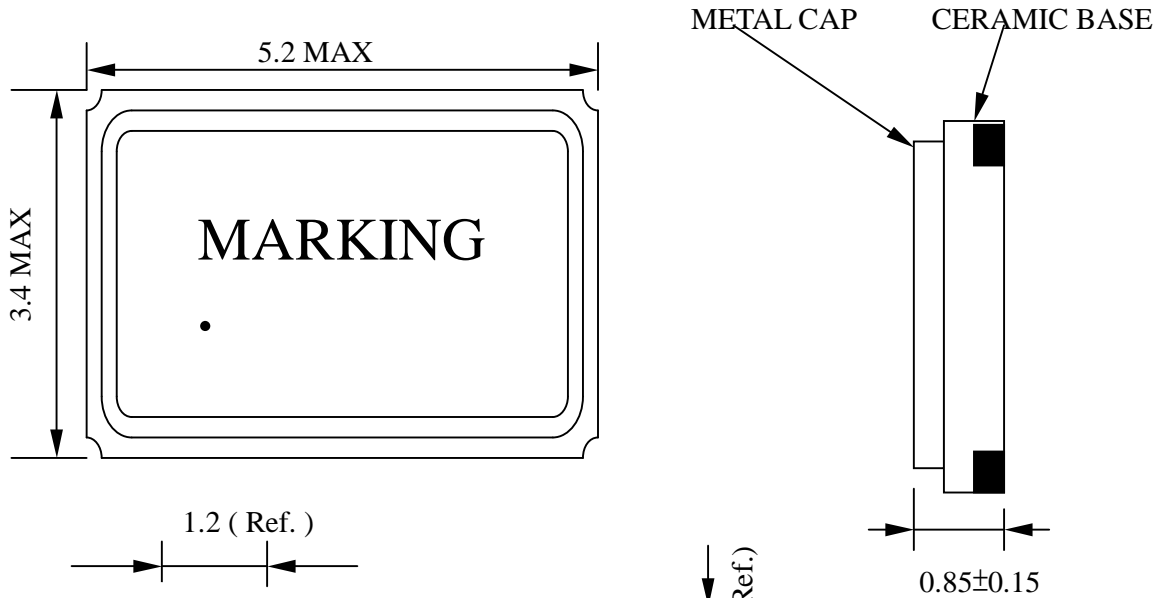


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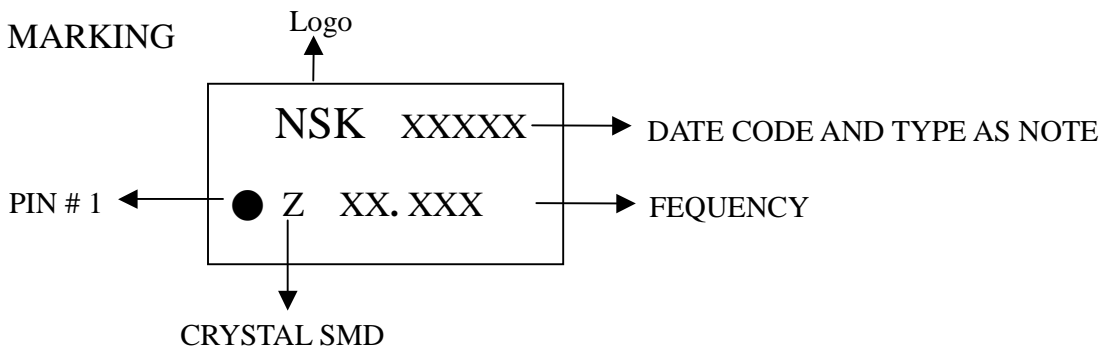
Dimensions (UNIT:mm)

BRAND: NSK

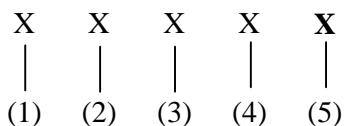


CRYSTAL SMD 5x3.2

n MARKING



NOTE:



(1)Year: Western calendar, Last 1 digit

Ex): 2007——[7]

(2) Month:

Jan	Fed	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	B	C	D	E	F	G	H	J	K	L	M

(3)CL

TABLE 1 LOAD CAPACITANCE (CL):

(CL)	<10	10	11	12	13	14	15	16	17	18	19	20
CODE	A	B	C	D	E	F	G	H	I	J	K	L

(CL)	21	22	23	24	25	26	27	28	29	30	31	32	33	34	>34	SERIES
CODE	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b

(4)Others

Cutting Method:

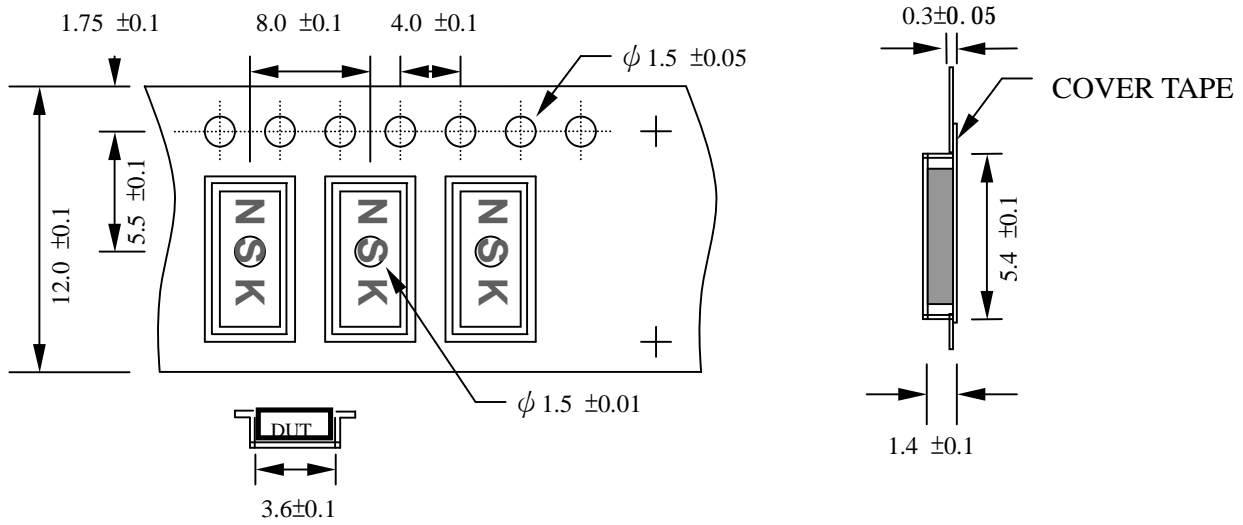
A	AT CUT	FUNDAMENTAL
B	BT CUT	FUNDAMENTAL
T	AT 3 RD	OVERTONE

(5) Production Line

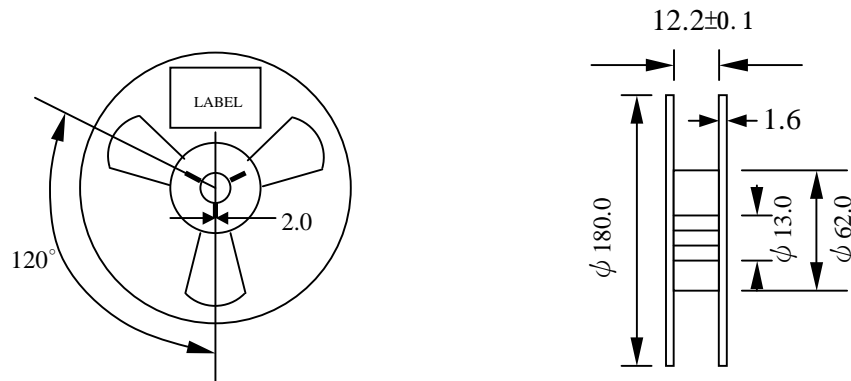
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Tape specification: (mm)



Reel packing: (mm)



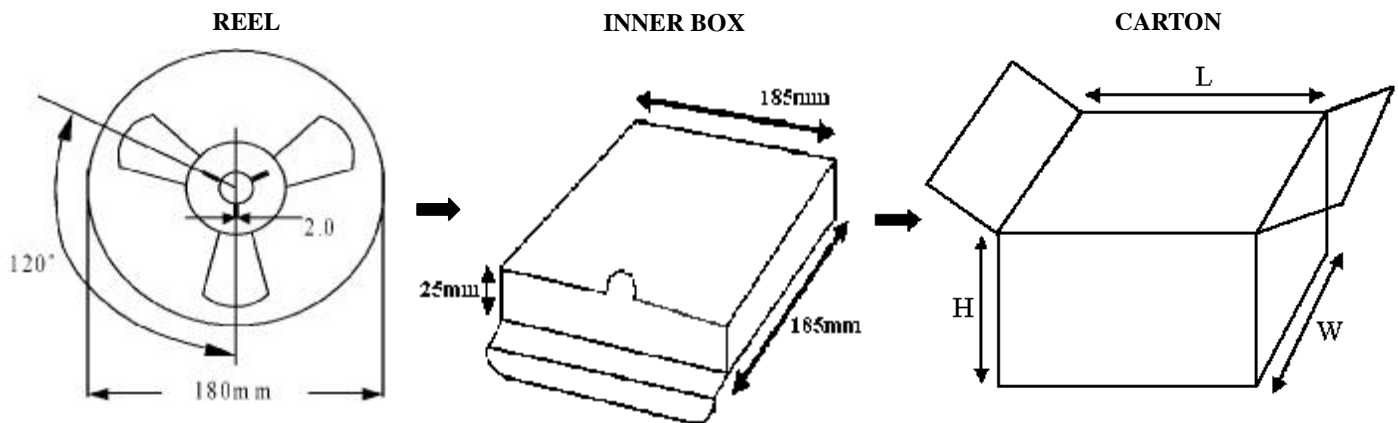
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CRYSTAL UNIT

** PACKING INFORMATION FOR CRYSTAL SMD (NXH) **

n STEP 1: WRAP PUT IN TO THE INNER BOX FOR 1000PCS



n STEP 2: STICK THE STICKERS ON THE INNER BOX AND CARTON

INNER BOX STICKER

NSK CRYSTAL UNIT	
FREQUENCY	MHz
HOLDER TYPE	
QUANTITY	
PART NO.	
ORDER NO.	
JENJAAN QUARTEK CORPORATION.	

CARTON STICKER

訂單號碼:	_____
料號:	_____
品名規格:	_____
交貨數量:	_____
交貨日期:	年 月 日

CARTON DIMENSION DETAILS

CARTON SIZE NO.	DIMENSIONS IN mm			Q'TY	Max
	L	W	H	PCS/CARTON	
9	400	410	165	20K	
10	395	210	165	10K	

Test Report

No. : CE/2010/A3069 Date : 2010/10/25 Page : 1 of 10

JENJAAN QUARTEK CORPORATION.
3F-5, NO. 504, YUN SHAN ROAD, CHUNG HO, TAIPEI, TAIWAN, R. O. C.



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

Sample Description : CRYSTAL UNITS
Style/Item No. : SMD/NXD/NXC/NXH/HXJ/NXK/NXL/NXN
Sample Receiving Date : 2010/10/18
Testing Period : 2010/10/18 TO 2010/10/25

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



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

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No. : CE/2010/A3069 Date : 2010/10/25 Page : 2 of 10

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3F-5, NO. 504, YUN SHAN ROAD, CHUNG HO, TAIPEI, TAIWAN, R. O. C.



Test Result(s)

PART NAME No.1 : MIXED ALL PARTS

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	74
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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No. : CE/2010/A3069 Date : 2010/10/25 Page : 3 of 10

JENJAAN QUARTEK CORPORATION.
3F-5, NO. 504, YUN SHAN ROAD, CHUNG HO, TAIPEI, TAIWAN, R. O. C.



Test Item (s):	Unit	Method	MDL	Result
				No.1
Sum of PBBs	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.
Sum of PBDEs			-	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.		
Phthalates				
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.

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No. : CE/2010/A3069 Date : 2010/10/25 Page : 4 of 10

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Test Item (s):	Unit	Method	MDL	Result No.1
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. 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 : Directive 2006/122/EC

(1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.

(2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.

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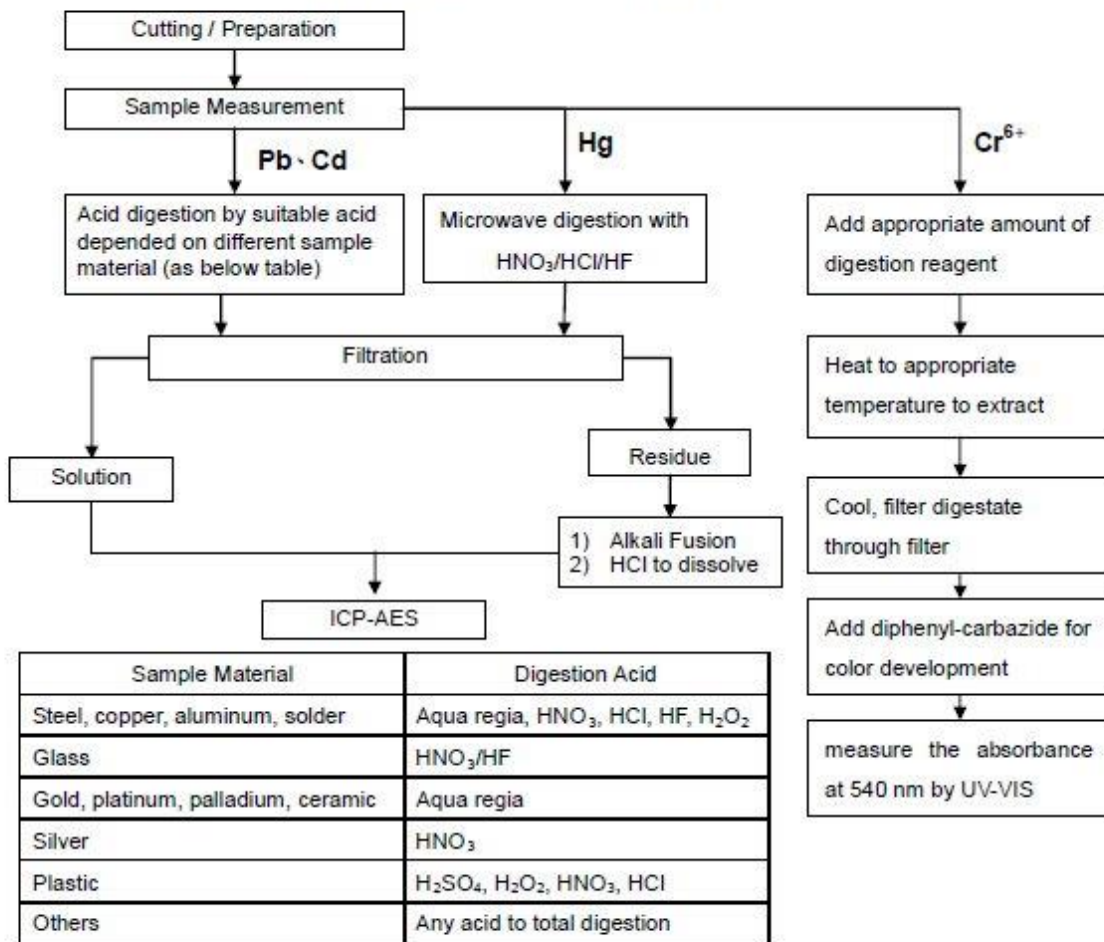
Test Report

No. : CE/2010/A3069 Date : 2010/10/25 Page : 5 of 10

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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No. : CE/2010/A3069 Date : 2010/10/25 Page : 6 of 10

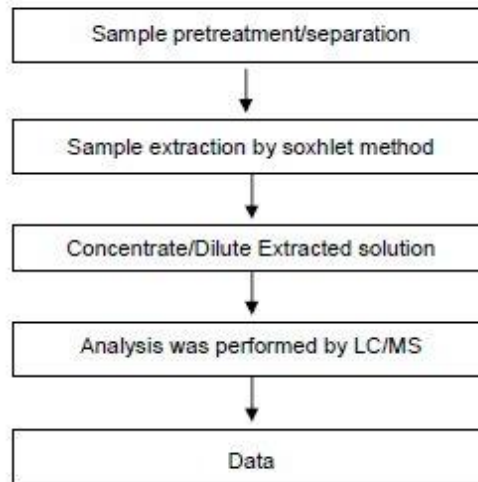
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Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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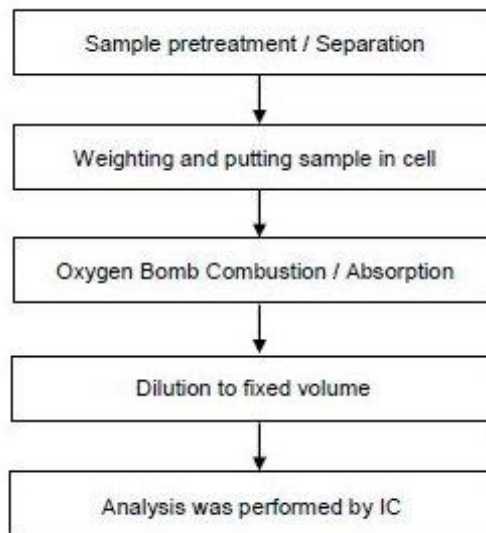
No. : CE/2010/A3069 Date : 2010/10/25 Page : 7 of 10

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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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No. : CE/2010/A3069 Date : 2010/10/25 Page : 8 of 10

JENJAAN QUARTEK CORPORATION.
3F-5, NO. 504, YUN SHAN ROAD, CHUNG HO, TAIPEI, TAIWAN, R. O. C.

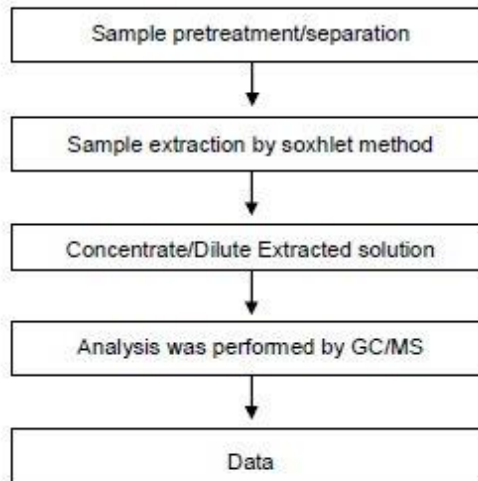


Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: Phthalate 、 Benzotriazole 、 HBCDD 、 NP 、 DBBT 、

Organic phosphorus compounds



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No. : CE/2010/A3069 Date : 2010/10/25 Page : 9 of 10

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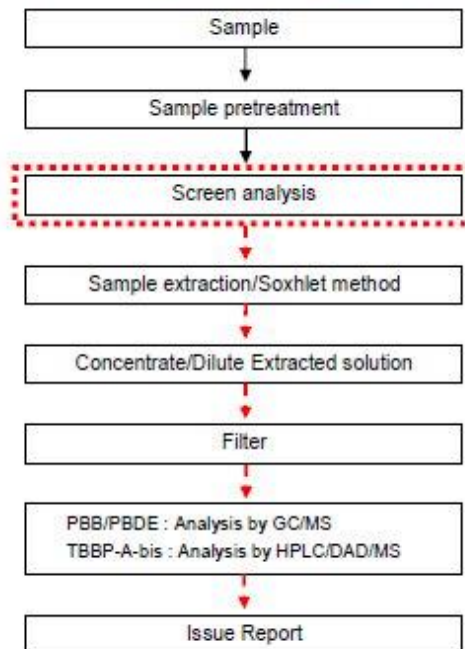


Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) 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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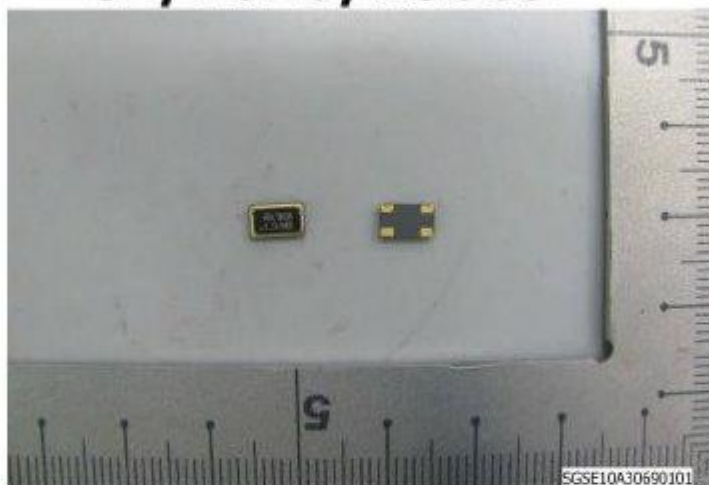
No. : CE/2010/A3069 Date : 2010/10/25 Page : 10 of 10

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CE/2010/A3069



** End of Report **

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