



SYNTON-TECH CORPORATION

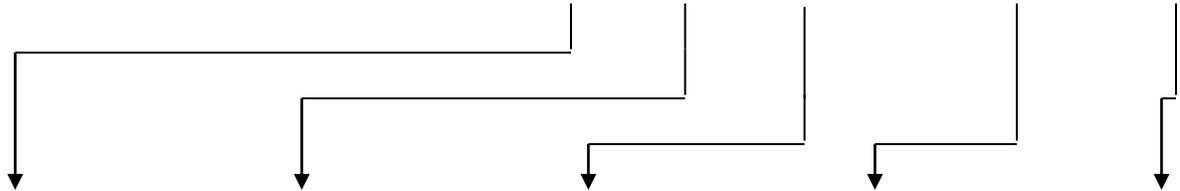
HIGH VOLTAGE RESISTORS

| | |
|-----------|--------------|
| File No.: | MFH-02-#S062 |
| Version: | B |
| Page: | 1/23 |
| Date: | 2016.03.07 |

1. EXPLANATIONS OF ORDERING CODE

DESCRIPTION : MFH 1W 5% 10MΩ 3.5KV

SYNTON CODE : MFH 100 J 106 / 3.5KV T



| <u>POWER</u> | <u>TOLERANCE</u> | <u>RESISTANCE</u> | <u>MAX. WORKING VOLTAGE</u> | <u>PACKAGE</u> |
|--|---|---|---|--|
| 012 : 1/8W 025 : 1/4W 050 : 1/2W 100 : 1W 200 : 2W 300 : 3W 100 S : 1W small Size (Please see detail of Figure1) | F : ±1% G : ±2% J : ±5% K : ±10% | <u>VALUE</u> 3 Digits : 106 : 10M 4 Digits : 1005 : 10M (Please see detail of Figure5,6) | 300V ~ 10KV (Please see detail of Figure1) | T : Tape Box (Please see detail of Figure4) |

| APPROVED | CHECKED | DESIGNED | REMARK | DOCUMENT NO. |
|----------|---------|----------|--------|--------------|
| Carol | May | Chen | RE: P1 | 0201010476 |



2. ELECTRICAL CHARACTERISTICS

| Type | MFH-12 | MFH-25S | MFH-25 | MFH-50S | MFH-50 | MFH-100S | MFH-100 | MFH-200S | MFH-200 | MFH-300S |
|---------------------------------|--|---------|------------|---------|------------|----------|------------|----------|------------|----------|
| Power | 1/8W | 1/4W | 1/4W | 1/2W | 1/2W | 1W | 1W | 2W | 2W | 3W |
| Max. Working Voltage | 300V | | 1600V | | 3500V | | 7000V | | 10000V | |
| Dielectric Withstanding Voltage | 300V | | 700V | | 700V | | 700V | | 700V | |
| Resistance Range | 10Ω ~<100M | | 10Ω ~<100M | | 10Ω ~<100M | | 10Ω ~<100M | | 10Ω ~<100M | |
| Short-Time Overload | ±1.0% | | | | | | | | | |
| Impulse Test | ±2.0% | | | | | | | | | |
| Load Life Test | ±5.0% | | | | | | | | | |
| Humidity Test | ±5.0% | | | | | | | | | |
| Temperature Cycling Test | ±1.0% | | | | | | | | | |
| Effective Soldering Test | ±1.0% | | | | | | | | | |
| Temperature Coefficient | <1K = ±500PPM/°C ≤100K = ±300PPM/°C >100K = ±200PPM/°C | | | | | | | | | |
| Vibration Test | ±1.0% | | | | | | | | | |
| Terminal Strength Test | ±0.5% | | | | | | | | | |
| Working Temp. Range | -55°C ~ +155°C | | | | | | | | | |
| Resistance Tolerance | F(±1%), G(±2%) , J(±5%), K(±10%) | | | | | | | | | |

**Small size type available on your request

Figure 1



| | |
|-----------|--------------|
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3. POWER RATING

(1) Power Derating

The Rated Power means the allowed continuous and maximum Power and voltage under the ambient temperature of 70°C. If the temperature exceeds 70°C the rated power shall be derated as according to the following curve.

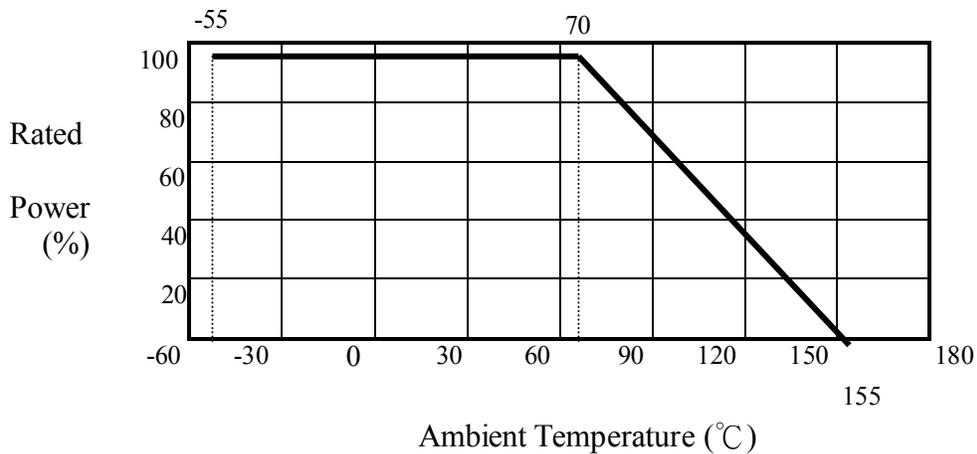


Figure2

(2) Rated Voltage

Rated Voltage means the equivalent of rated power to the D.C. or A. C. (Commercial effective cycles) voltage. The result can be obtained from the following equation. If the rated voltage exceeds the maximum voltage, the maximum working voltage will apply.

$$E = \sqrt{P \times R}$$

E : Rated Voltage (V)

P : Rated Power (W)

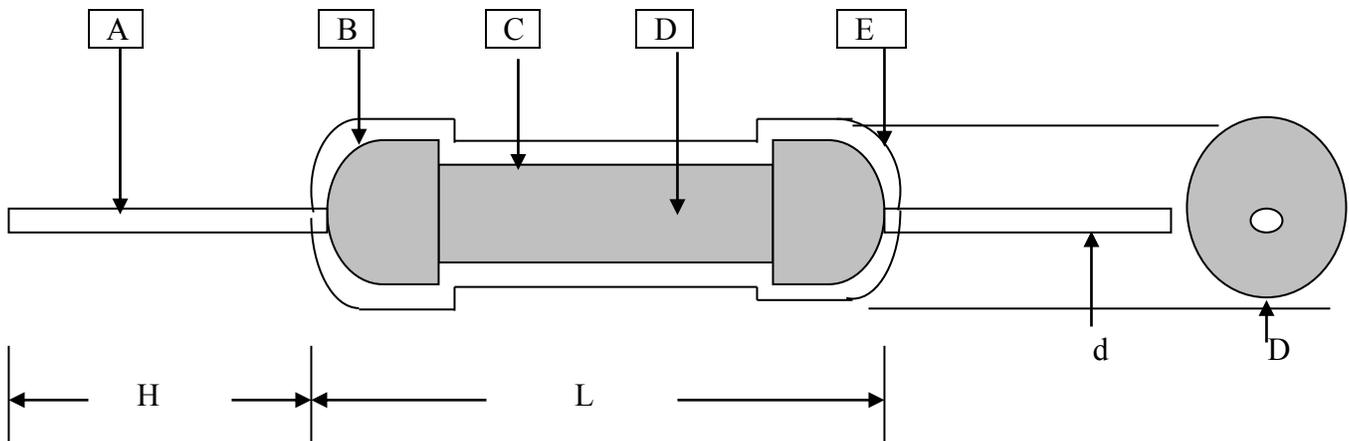
R : Nominal Value (Ω)



4. CONSTRUCTION AND DIMENSIONS

4.1 Construction

- A. Tinned Copper Wire
- B. Tinned Iron Cap
- C. Metal Glazed Film
- D. Ceramic Rod
- E. Silicon Paint



4.2 Dimensions

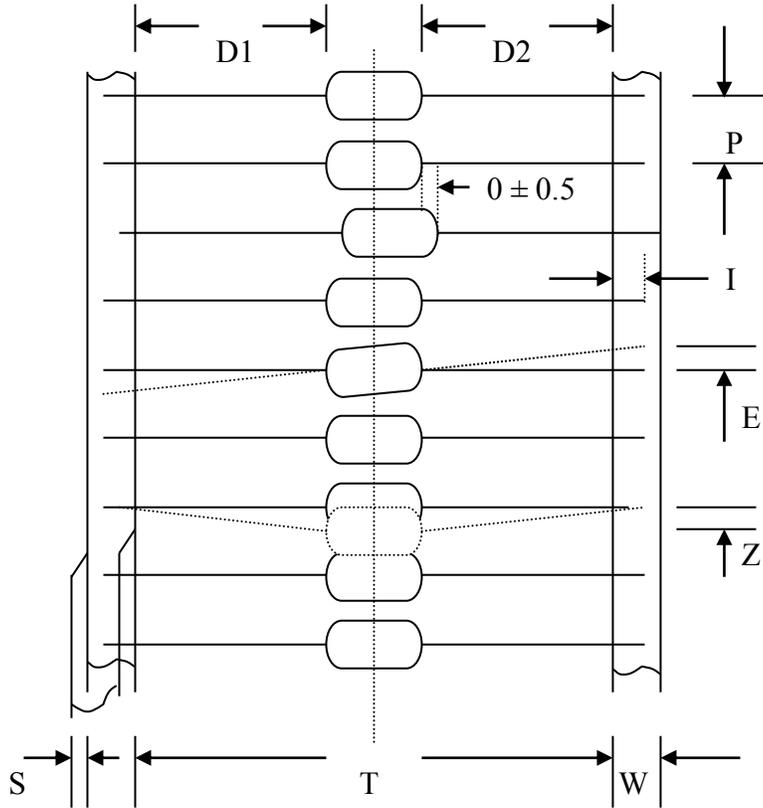
Unit:m/m

| TYPE | POWER | L | D | H | d |
|----------|-------|---------|---------|------|-----------|
| MFH-12 | 1/8W | 3.3±0.3 | 1.8±0.2 | 28±2 | 0.45±0.05 |
| MFH-25S | 1/4W | | | | |
| MFH-25 | 1/4W | 6.0±0.3 | 2.4±0.1 | 28±2 | 0.60±0.05 |
| MFH-50S | 1/2W | | | | |
| MFH-50 | 1/2W | 9.0±0.5 | 3.3±0.5 | 30±3 | 0.60±0.05 |
| MFH-100S | 1W | | | | |
| MFH-100 | 1W | 12/+1-2 | 4.5±0.5 | 38±3 | 0.80±0.05 |
| MFH-200S | 2W | | | | |
| MFH-200 | 2W | 16/+1-2 | 5.5±0.5 | 38±3 | 0.80±0.05 |
| MFH-300S | 3W | | | | |

Figure3



4.3 Tape packing (T-TYPE)



Unit : m/m

| TYPE | SIZE | T | P ± 0.5 | W ± 0.5 | D1-D2 Max. | E Max. | Z Max. | S Max. | I Min. |
|----------|------|--------------|----------------|----------------|---------------|-----------|-----------|-----------|-----------|
| MFH-12 | T-52 | 52 \pm 2.0 | 5 | 6 | 1.2 | 1 | 1.2 | 1 | 3.2 |
| MFH-25S | | | | | | | | | |
| MFH-25 | T-52 | 52 \pm 2.0 | 5 | 6 | 1.2 | 1 | 1.2 | 1 | 3.2 |
| MFH-50S | | | | | | | | | |
| MFH-50 | T-52 | 52 \pm 2.0 | 5 | 6 | 1.4 | 1 | 1.2 | 1 | 3.2 |
| MFH-100S | | | | | | | | | |
| MFH-100 | T-52 | 52 \pm 2.0 | 5 | 6 | 1.4 | 1 | 1.2 | 1 | 3.2 |
| MFH-200S | | | | | | | | | |
| MFH-200 | T-64 | 64 \pm 2.0 | 10 | 6 | 1.4 | 1 | 1.2 | 1 | 3.2 |
| MFH-300S | | | | | | | | | |

Figure4



5. CHARACTERISTICS

5.1. Tensile Strength

When the lead wire is welded and fixed at one terminal, the other terminal on the axial direction of the body is applied a load of 2.5Kgs for 5 ~ 10 seconds. The terminal lead wire shall not break or loosen.

5.2. Twist Strength

At the point of 6 mm. from the body of the resistor nearing the cap, a 90° bend with a radius of 0.75~0.8 mm is made. Then the free end of the terminal is clamped at a point 1.2 ± 0.4 mm away from the bend. After the resistor is held in a fixed position, the terminal lead wire is twisted around the axis, making a 360° rotation, in both directions, at the rate of 5 seconds per one revolution. There should be no breakage or loosening. The same action can be applied if the lead wire is fixed while twisting the body of the resistor.

5.3. Bending Strength

The terminal lead wire shall hold a load of 500gms at vertical position. The terminal lead wire shall be bent at 90° twice for each direction. Time required is 5 seconds. The terminal lead wire shall not break or loosen.

5.4. Vibration Test

Both lead wires are at 10 mm. distance from the resistor. They shall be securely soldered or fixed to the holding terminals of the rigid mounting stand. The mounting stand is securely fixed on a vibration tester which repeats harmonic vibration cycle of the amplitude of 0.75 mm. (full amplitude 1.5 mm). Next, apply frequency reading gradually from 10 Hz up to 55 Hz and return to 10 Hz within one minute then decrease cycles the following minute. After subjecting this test for 5 hours, the change of resistance value from the value before the test shall be within $\pm 1\%$. Moreover, the resistor shall be free from mechanical damage.

5.5. Dielectric Withstanding Voltage

The resistor is placed on the metal V block. Apply to the A.C. voltage (Sine Wave Voltage) as indicated in Table 1, between the terminals connected together with the block for about 5 seconds. The resistor shall be able to withstand the voltage without any sign of a breakdown or flashover.



5.6. Short Time Overload Test

After applying 2.5 times the rated voltage (Sine Wave Voltage A.C. or D.C., if the voltage exceeds the maximum load voltage, the maximum load voltage will be used as the rated voltage) for 5 seconds to the resistor, the resistors should be free from defects after the resistor is released from load for about 30 min. The change of the resistance value should be within $\pm 1\%$.

5.7. Impulse Test

The resistor shall be applied 4 times working voltage (when the voltage exceeds maximum impulse voltage given in Table 1, however, the maximum impulse voltage shall be applied) for 50 micro-second on and 5 seconds off, continuously for 50 cycles. The change of the resistance value before and after the test shall be within $\pm 2\%$.

5.8. Load Life Test

Placed in a constant temperature chamber of $40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ the resistor shall be connected to the lead wire at the point of 25 mm length with each terminal. The resistor shall be arranged so that the temperature of one resistor cannot affect that of another, and there should be no excessive ventilation. The rated D. C. voltage is applied for 90 minutes on and 30 minutes off, continuously for 1000 ± 12 hours. Then the resistor will be left at no-load for 1 hour. The change of the resistance value measured at this time from the value before the test shall be within $\pm 5\%$.

5.9. Humidity Test

Put the resistor in a 40°C at the RH 95% chamber for $1,000 \pm 12$ hours, the change of the resistance value before and after the test shall be within $\pm 5\%$.

5.10. Temperature Cycling Test

The temperature cycle shown in the following table shall be repeated 5 times consecutively. The measurement of the resistance value is done before the first cycle and at the end of the fifth cycle. After leaving the resistor in room temperature for about 1 hour, the change shall be within $\pm(1\% + 0.05 \Omega)$. After the test, the resistor shall be free from the electrical or mechanical damage.

| Step | Temperature | Time |
|------|-----------------------------|-----------------|
| 1 | $-55 \pm 3^{\circ}\text{C}$ | 30 minutes |
| 2 | $20 \pm 5^{\circ}\text{C}$ | 10 ~ 15 minutes |
| 3 | $155 \pm 2^{\circ}\text{C}$ | 30 minutes |
| 4 | $20 \pm 5^{\circ}\text{C}$ | 10 ~ 15 minutes |



5.11. Effective Soldering

The terminal lead shall be dipped in to molten solder of $350 \pm 10^\circ\text{C}$ for 3 ± 0.5 seconds up to a level of 3.2 to 4.8mm. from the body of the resistor. Then the resistor is left in room temperature for 3 hours. The change of the resistance value shall be within $\pm(1\% + 0.05\Omega)$ as compared with the value before the test. No remarkable change in appearance or mechanical damage should be observed.

5.12. Temperature Coefficient Test

Test resistors above room temperature $40^\circ\text{C} \sim 60^\circ\text{C}$ (Testing Temp.) at a constant temperature oven for 30 ~ 40 minutes. Then measure the resistance. The Temperature Coefficient can be calculated by the following equation, and its value should be within $\pm 500\text{PPM}/^\circ\text{C}$.

$$\text{Resistor Temp. Coefficient} = \frac{R - R_0}{R_0} \times \frac{1}{t - t_0} \times 10^6 \text{ (PPM}/^\circ\text{C)}$$

- R : Resistance value under the testing temperature.
- R_0 : Resistance value at the room temperature.
- T : The testing temperature.
- t_0 : Room temperature.



5.13.Pulse Voltage Experiment

will supply to try the resistor level to put in on experimental, will exert direct current of standard beginnings and ends of wire to the resistor (for example attached list) (commercial frequency Effective value) the voltage, will exert the testing voltage time will be 2.5 seconds ON, 2.5 seconds OFF 50 cycles.

after again will determine the experiment the resistance value.

The above experiment around the resistance value rate of change must be bigger than ±20%.

| TYPE | MFH-12 | MFH-25S | MFH-25 | MFH-50S | MFH-50 | MFH-100S | MFH-100 | MFH-200S | MFH-200 | MFH-300S |
|---------------|------------------------|---------|--------------------------|---------|--------|----------|---------|----------|---------|----------|
| Rated power | 1/8W | 1/4W | 1/4W | 1/2W | 1/2W | 1W | 1W | 2W | 2W | 3W |
| Pulse voltage | 10Ω ~ 100MΩ (3KV) | | <100KΩ (3KV) | | | | | | | |
| | | | 100KΩ ~ 620KΩ (5KV) | | | | | | | |
| | | | >620KΩ (10KV) | | | | | | | |

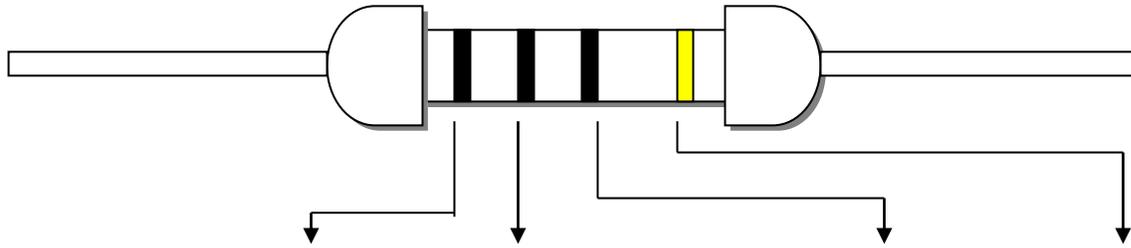
● **Rated continuous Working Voltage (RCWV)**

= $\sqrt{\text{power rating} \times \text{resistance value}}$



6. COLOR CODING

6.1 J (±5%)



| Color | 1st, 2nd (Significant Figure) | | 3rd (Multiplier) | 4th (Distinguish color code) |
|--------|----------------------------------|---|---------------------|------------------------------------|
| | | | | |
| Black | 0 | 0 | 10^0 | Yellow |
| Brown | 1 | 1 | 10^1 | |
| Red | 2 | 2 | 10^2 | |
| Orange | 3 | 3 | 10^3 | |
| Yellow | 4 | 4 | 10^4 | |
| Green | 5 | 5 | 10^5 | |
| Blue | 6 | 6 | 10^6 | |
| Violet | 7 | 7 | 10^7 | |
| Gray | 8 | 8 | 10^8 | |
| White | 9 | 9 | 10^9 | |
| Gold | — | — | 10^{-1} | |
| Silver | — | — | 10^{-2} | |
| Plain | — | — | 10^{-3} | |

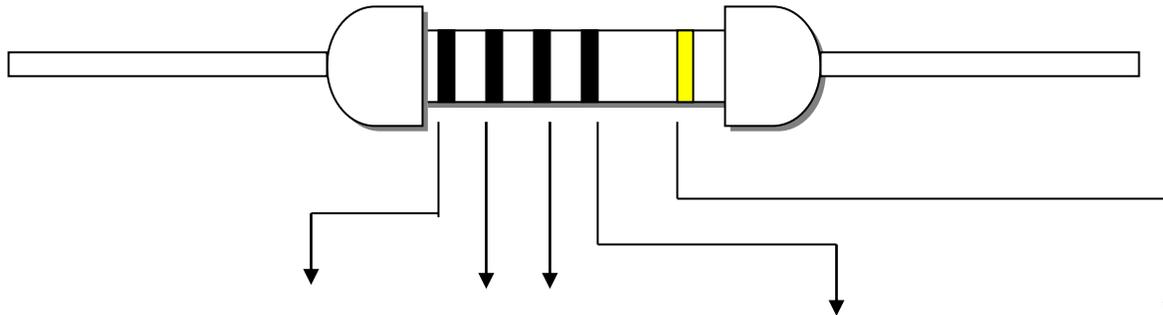
Figure5

*Coating color : Dark Blue & Color Code for 1/8W, 1/4W

*Coating color : Pink & Stamping for Marking of 1/2W and up



6.2 F (±1%)



| Color | 1st, 2nd 3rd (Significant Figure) | | | 4th (Multiplier) | 5th (Distinguish color code) |
|--------|--------------------------------------|-----|-----|---------------------|------------------------------------|
| | 1st | 2nd | 3rd | | |
| Black | 0 | 0 | 0 | 10^0 | Yellow |
| Brown | 1 | 1 | 1 | 10^1 | |
| Red | 2 | 2 | 2 | 10^2 | |
| Orange | 3 | 3 | 3 | 10^3 | |
| Yellow | 4 | 4 | 4 | 10^4 | |
| Green | 5 | 5 | 5 | 10^5 | |
| Blue | 6 | 6 | 6 | 10^6 | |
| Violet | 7 | 7 | 7 | 10^7 | |
| Gray | 8 | 8 | 8 | 10^8 | |
| White | 9 | 9 | 9 | 10^9 | |
| Gold | — | — | — | 10^{-1} | |
| Silver | — | — | — | 10^{-2} | |
| Plain | — | — | — | 10^{-3} | |

Figure6

*Coating color : Dark Blue & Color Code for 1/8W, 1/4W

*Coating color : Pink & Stamping for Marking of 1/2W and up



SYNTECH CORPORATION

HIGH VOLTAGE RESISTORS

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| Date: | 2016.03.07 |



測試報告 Test Report

號碼(No.) : CE/2015/38230A 日期(Date) : 2015/04/09 頁數(Page): 1 of 12

欣統股份有限公司 / SYNTECH CORPORATION
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 (NO. 13, SHUICHANG FIRST ROAD, SHUIKOU VILLAGE,
 DALANG TOWN, DONGGUAN, GUANGDONG, CHINA)



以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : METAL FILM FIXED RESISTORS
 樣品型號(Style/Item No.) : MF, FMF, MPH, TYPE
 收件日期(Sample Receiving Date) : 2015/03/31
 測試期間(Testing Period) : 2015/03/31 TO 2015/04/09

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

* 此份報告為合併CE/2015/38225及CE/2015/38230之報告 *
 (This report is combined with reports of CE/2015/38225 and CE/2015/38230)

Troy Chang, Manager - Tech
 Signed for and on behalf of
SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

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SYNTECH CORPORATION

HIGH VOLTAGE RESISTORS

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測試報告 Test Report

號碼(No.) : CE/2015/38230A 日期(Date) : 2015/04/09 頁數(Page): 2 of 12

欣統股份有限公司 / SYNTECH CORPORATION
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 (NO. 13, SHUICHANG FIRST ROAD, SHUIKOU VILLAGE,
 DALANG TOWN, DONGGUAN, GUANGDONG, CHINA)



測試結果(Test Results)

- 測試部位(PART NAME)No.1 : 混測銀色金屬 (含鍍層) (MIXED SILVER COLORED METAL (INCLUDING THE PLATING LAYER) (CE/2015/38225))
 測試部位(PART NAME)No.2 : 本體混測 (不含銀色金屬腳) (MIXED ALL PARTS OF BODY (EXCLUDING THE SILVER COLORED METAL PIN) (CE/2015/38230))

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) | |
|--|--------------|---|----------------------|-------------|------|
| | | | | No.1 | No.2 |
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. | n.d. |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. | n.d. |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測。 / With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2 | n.d. | n.d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | ** | 參考IEC 62321: 2008方法, 以沸水萃 取法檢測。 / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.# | # | Negative | --- |
| | mg/kg | 參考IEC 62321: 2008方法, 以UV-VIS 檢測。 / With reference to IEC 62321: 2008 and performed by UV- VIS. | 2 | --- | n.d. |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | 參考US EPA 3550C: 2007方法, 以液相 層析/質譜儀檢測。 / With reference to US EPA 3550C: 2007. Analysis | 10 | n.d. | n.d. |
| 全氟辛酸 / PFOA (CAS No.: 335-67-1) | mg/kg | was performed by LC/MS. | 10 | n.d. | n.d. |

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TWB 601 3549

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Member of SGS Group

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SYNTECH CORPORATION

HIGH VOLTAGE RESISTORS

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測試報告 Test Report

號碼(No.): CE/2015/38230A 日期(Date): 2015/04/09 頁數(Page): 3 of 12

欣統股份有限公司 / SYNTECH CORPORATION
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16F-3, NO. 79, FAR EAST WORLD CENTER SEC. 1, HSIN
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(NO. 13, SHUICHANG FIRST ROAD, SHUIKOU VILLAGE,
DALANG TOWN, DONGGUAN, GUANGDONG, CHINA)



| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法值測 極限值 (MDL) | 結果 (Result) | |
|--|--------------|---|----------------------|-------------|-------|
| | | | | No. 1 | No. 2 |
| 六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | 參考IEC 62321: 2008方法, 以氣相層析/質譜儀檢測。 / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS. | 5 | n.d. | --- |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) | mg/kg | 參考IEC 62321-8 (111/321/CD), 以氣相層析儀/質譜儀檢測之。 / With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS. | 50 | n.d. | --- |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | mg/kg | | 50 | n.d. | --- |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | mg/kg | | 50 | n.d. | --- |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) | mg/kg | | 50 | n.d. | --- |
| 鹵素 / Halogen | | | | | |
| 鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | 參考BS EN 14582:2007, 以離子層析儀分析。 / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | n.d. |
| 鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1) | mg/kg | | 50 | n.d. | n.d. |
| 鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | | 50 | n.d. | n.d. |
| 鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8) | mg/kg | | 50 | n.d. | n.d. |

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SYNTON-TECH CORPORATION

HIGH VOLTAGE RESISTORS

File No.: MFH-02-#S062
Version: B
Page: 15/23
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測試報告

Test Report

號碼(No.): CE/2015/38230A 日期(Date): 2015/04/09 頁數(Page): 4 of 12

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 (NO. 13, SHUICHANG FIRST ROAD, SHUIKOU VILLAGE,
 DALANG TOWN, DONGGUAN, GUANGDONG, CHINA)



| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) | |
|----------------------------------|--------------|---|----------------------|-------------|-------|
| | | | | No. 1 | No. 2 |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考 IEC 62321: 2008 方法, 以氣相層 析/質譜儀檢測, / With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. | n.d. |
| 一溴聯苯 / Monobromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 二溴聯苯 / Dibromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 三溴聯苯 / Tribromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 四溴聯苯 / Tetrabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 五溴聯苯 / Pentabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 六溴聯苯 / Hexabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 七溴聯苯 / Heptabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 八溴聯苯 / Octabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 九溴聯苯 / Nonabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | | 5 | n.d. | n.d. |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | | - | n.d. | n.d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 二溴聯苯醚 / Dibromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 三溴聯苯醚 / Tribromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 五溴聯苯醚 / Pentabromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 六溴聯苯醚 / Hexabromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 七溴聯苯醚 / Heptabromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 八溴聯苯醚 / Octabromodiphenyl ether | mg/kg | | 5 | n.d. | n.d. |
| 九溴聯苯醚 / Nonabromodiphenyl ether | mg/kg | 5 | n.d. | n.d. | |
| 十溴聯苯醚 / Decabromodiphenyl ether | mg/kg | 5 | n.d. | n.d. | |

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| Version: | B |
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測試報告

Test Report

號碼(No.) : CE/2015/38230A 日期(Date) : 2015/04/09 頁數(Page): 5 of 12

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備註(Notes):

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測項目)
6. **= Qualitative analysis (No Unit) 定性分析(無單位)
7. # = a. Positive means the presence of CrVI on the tested areas
(Positive表示測試區域偵測到六價鉻)
b. Negative means the absence of CrVI on the tested areas
(Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas. / 該溶液濃度≥0.02 mg/kg with 50 cm² (tested areas)

8. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過1µg/m²。
 (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/m².)

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HIGH VOLTAGE RESISTORS

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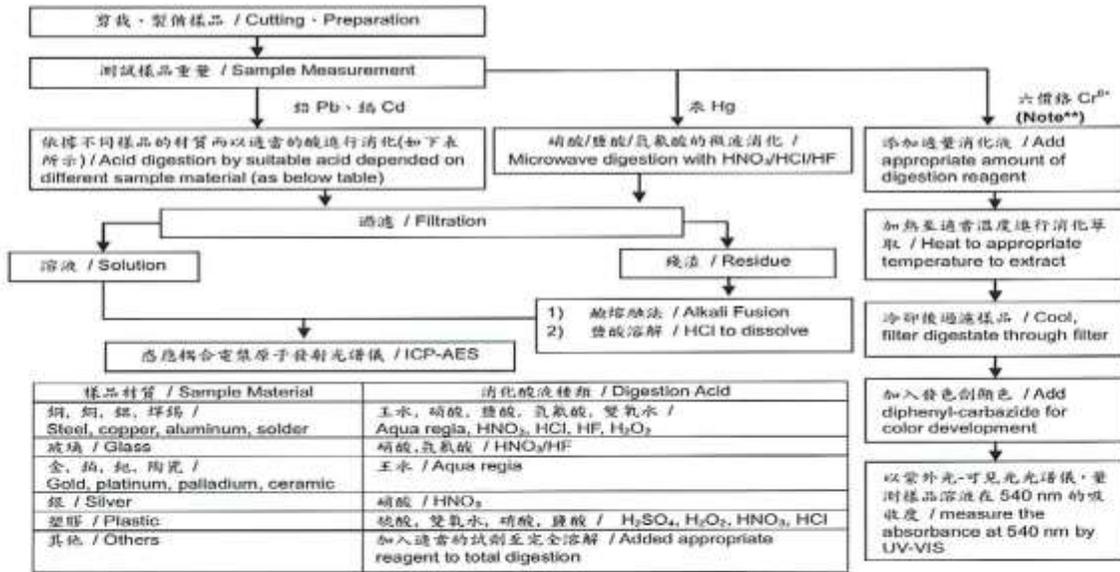
測試報告 Test Report

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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



Note (For IEC 62321)**

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90-95℃ 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90-95℃.
- (2) 針對金屬材料加入純水，加熱至沸騰萃取。 / For metallic material, add pure water and heat to boiling.

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測試報告 Test Report

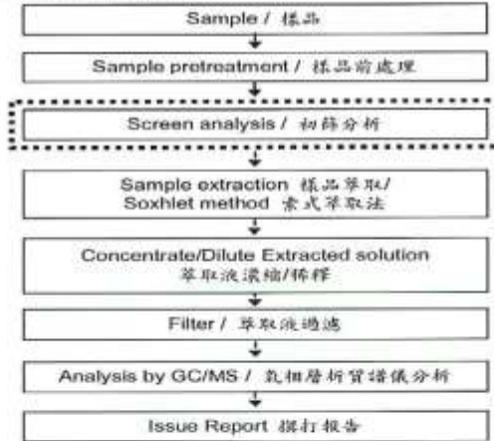
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：翁瑞彬 / Name of the person who made measurement: Roman Wong
 - 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang
- 初次測試程序 / First testing process →
 選擇性篩檢程序 / Optional screen process
 確認程序 / Confirmation process - - ->



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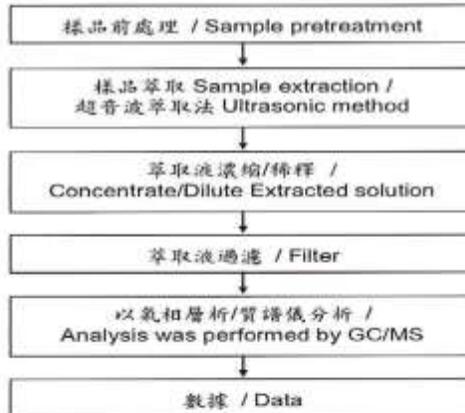
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告

Test Report

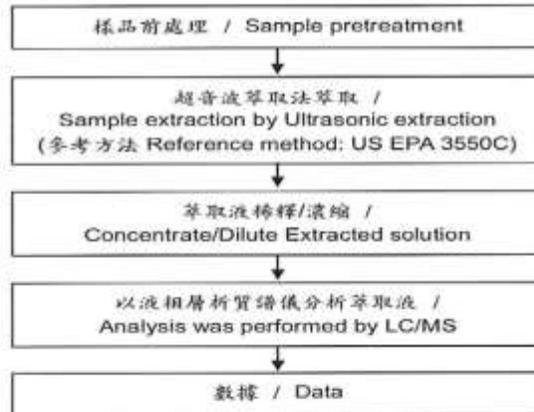
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



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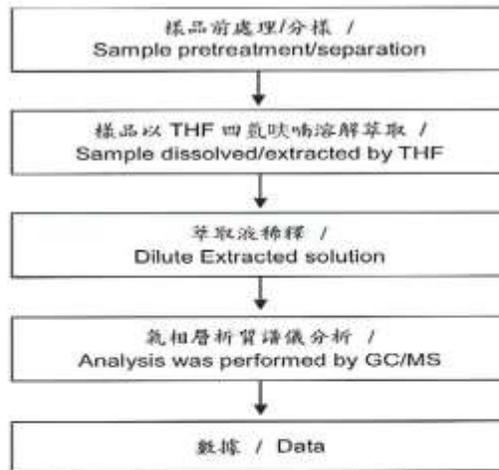
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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測試報告 Test Report

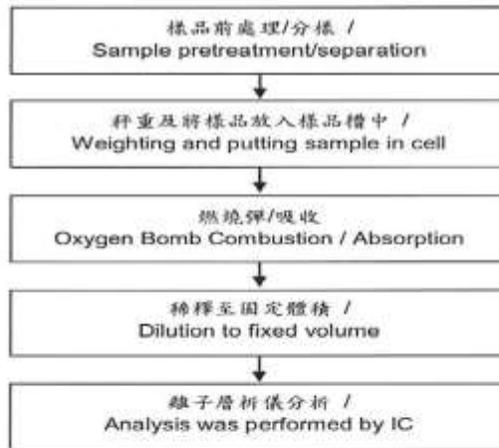
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欣統股份有限公司 / SYNTECH CORPORATION
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 (廣東省東莞市大朗鎮水口村水常一路13號)
 (NO. 13, SHUICHANG FIRST ROAD, SHUIKOU VILLAGE,
 DALANG TOWN, DONGGUAN, GUANGDONG, CHINA)



鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員：陳思臻 / Name of the person who made measurement: Rita Chen
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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SYNTECH CORPORATION

HIGH VOLTAGE RESISTORS

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| File No.: | MFH-02-#S062 |
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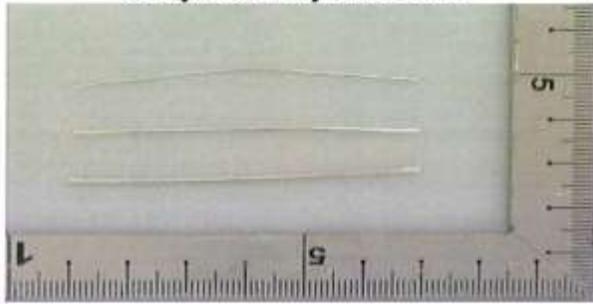


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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。
 (The tested sample / part is marked by an arrow if it's shown on the photo.)

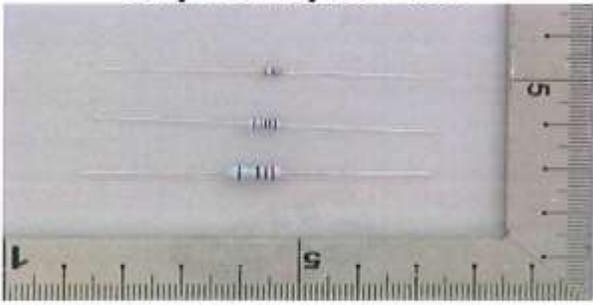
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CE/2015/38225



No. 2

CE/2015/38230



** 報告結尾 (End of Report) **

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