



SYNTECH CORPORATION

WIRE WOUND RESISTORS

File No. :	KNP-02-D
Version :	B
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Date :	2016.04.19

1. INTRODUCTION

- To wind the alkaline less ceramic core with metal alloy resistance wire and coating with silicon resin which makes wire wound resistor KNP series
- Small in size comparatively than other kind resistor
- Electrical and Mechanical stability and high reliability

2. FEATURES

- High stable pulse characteristics!
- Meet JIS-C-5201 requirements!
- Super heat dissipation!
- Low noise!
- No annual shift on resistance value!
- Special tight tolerance are available on request!

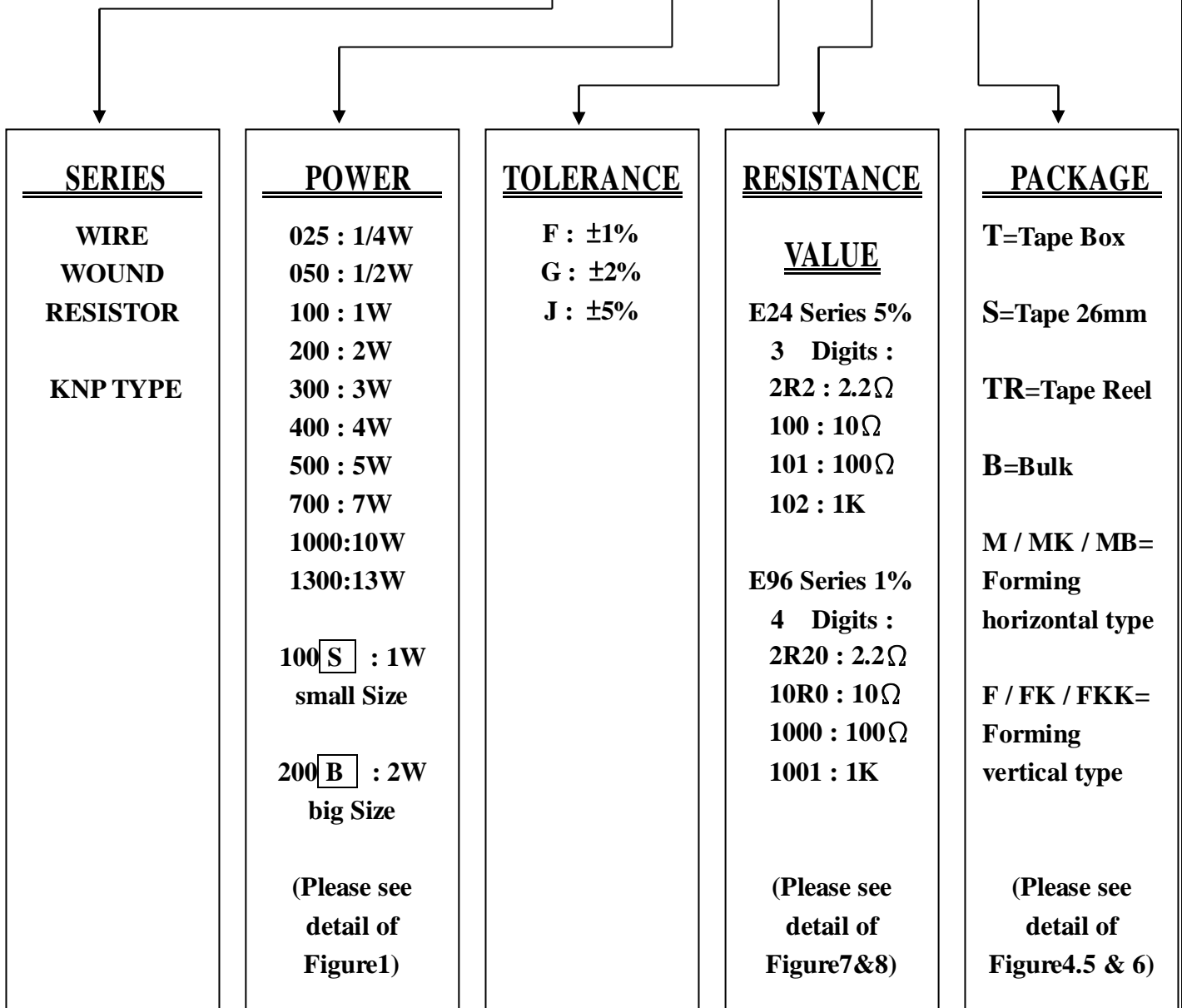
APPROVED	CHECKED	DESIGNED	REMARK	DOCUMENT NO.
Carol	May	Chen	RE:SGS	0201010020



3. EXPLANATIONS OF ORDERING CODE

DESCRIPTION : KNP 1W 5% 100Ω

SYNTECH CODE : KNP 100 J 101 T





SYNTON-TECH CORPORATION

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4. ELECTRICAL CHARACTERISTICS

TYPE	Power Rating at 70°C	Operating Temp. Range	Maximum Working Volt.	Maximum Overload Volt.	Dielectric withstanding Volt	Value Range Standard (Ω)	Special(Ω)	
							High	Low
KNP-25	1/4W	-55°C ~ +155°C	250V	350V	300V	0.1~60	150	0.0067
KNP-50S	1/2W		250V	350V	300V	0.1~60	150	0.0067
KNP-50	1/2W		250V	350V	300V	0.1~100	350	0.0019
KNP-100SS	1W		250V	350V	300V	0.1~60	150	0.0067
KNP-100S	1W		250V	350V	300V	0.1~100	350	0.0019
KNP-100	1W		300V	450V	400V	0.1~100	600	0.0017
KNP-200S	2W		300V	450V	400V	0.1~100	600	0.0017
KNP-200	2W		300V	450V	400V	0.1~100	1.2K	0.0020
KNP-250S	2.5W		300V	450V	400V	0.1~100	600	0.0017
KNP-300SS	3W		300V	450V	400V	0.1~100	600	0.0017
KNP-300S	3W		300V	450V	400V	0.1~150	1.2K	0.0020
KNP-300	3W		300V	450V	400V	0.1~150	1.5K	0.0025
KNP-400	4W		300V	450V	400V	0.1~300	1.5K	0.0025
KNP-500S	5W		300V	450V	400V	0.1~100	1.2K	0.0020
KNP-500	5W		300V	450V	400V	0.1~400	1.5K	0.0025
KNP-500B	5W		300V	450V	400V	0.1~400	2.9K	0.0028
KNP-600	6W		300V	450V	400V	0.1~1K	2.9K	0.0028
KNP-700S	7W		300V	450V	400V	0.1~1.5K	2.9K	0.0028
KNP-700	7W		300V	450V	400V	0.1~1.5K	3.9K	0.0040
KNP-800	8W		300V	450V	400V	0.1~2K	3.9K	0.0040
KNP-1000S	10W	300V	450V	400V	0.1~2K	3.9K	0.0040	
KNP-1000	10W	300V	450V	400V	0.1~3K	5.8K	0.0047	
KNP-1100S	11W	300V	450V	400V	0.1~1.5K	3.9K	0.0040	
KNP-1300	13W	300V	450V	400V	0.1~3K	5.8K	0.0047	
Temp. Coefficient	±300PPM /°C , special low to ±25PPM high to ±1500PPM							
Remark	Special Low And High Values Are Available On Your Request.							

Figure 1



5. POWER RATING

(1) **Power Derating** : The rated power at the temperature in excess of 70°C shall be derated in accordance with figure2

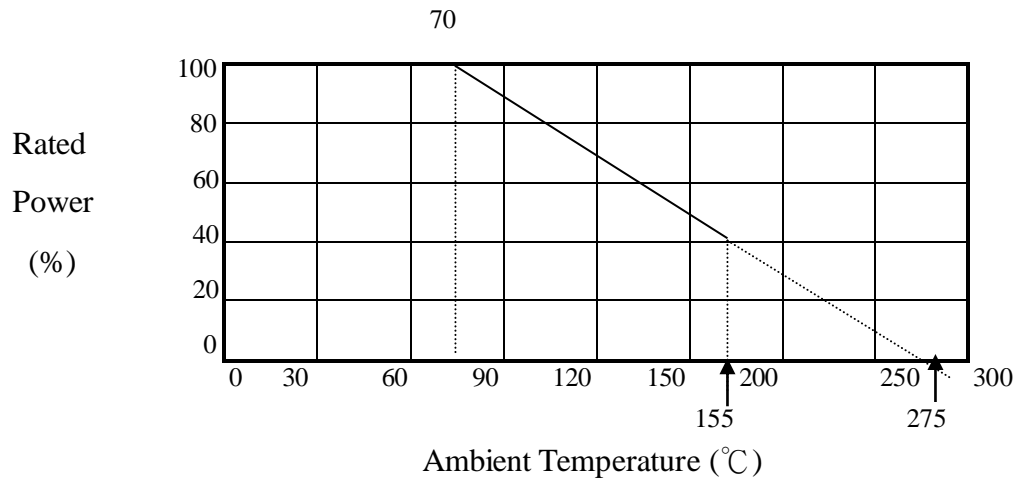
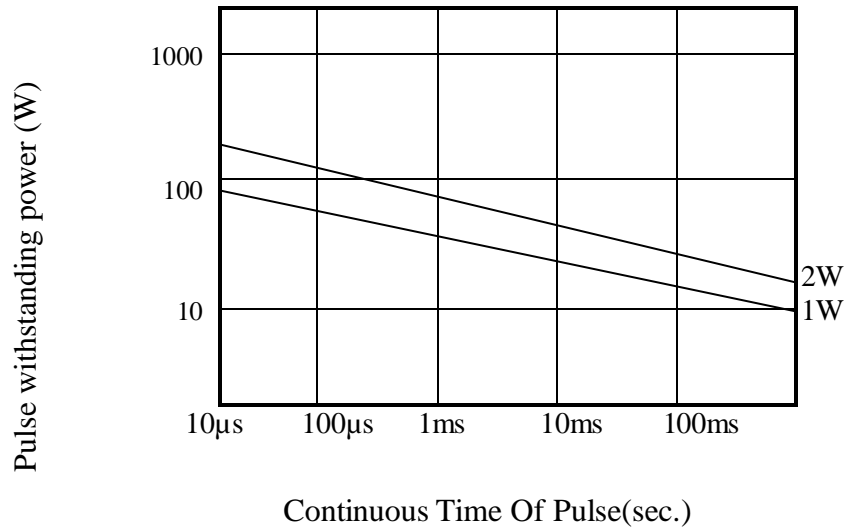


Figure2

(2) Pulse Loading Characteristics





(3)Rated Voltage : The DC or AC(rms) continuous working voltage corresponding to the rated power is determined by the following formula:

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

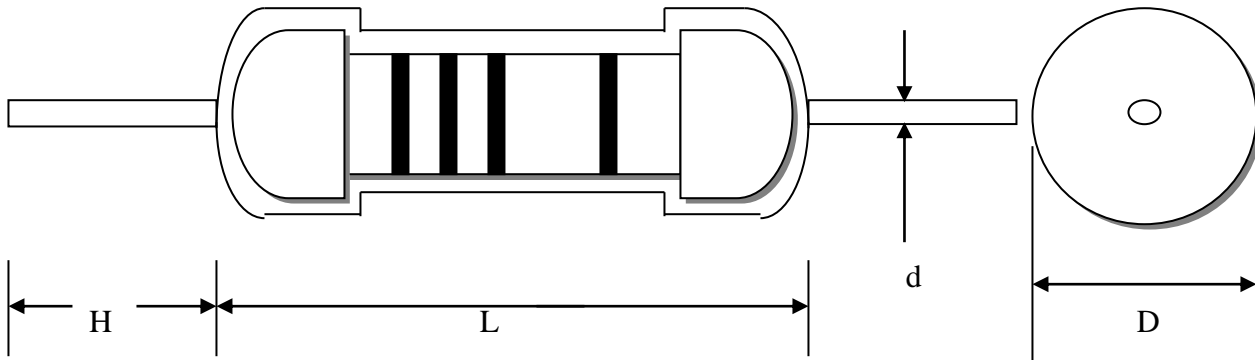
Where E : Continuous rated DC or AC (rms) working voltage (v)

P : Rated power (w)

R : Resistance value (Ω)



6. DIMENSIONS



Unit:m/m

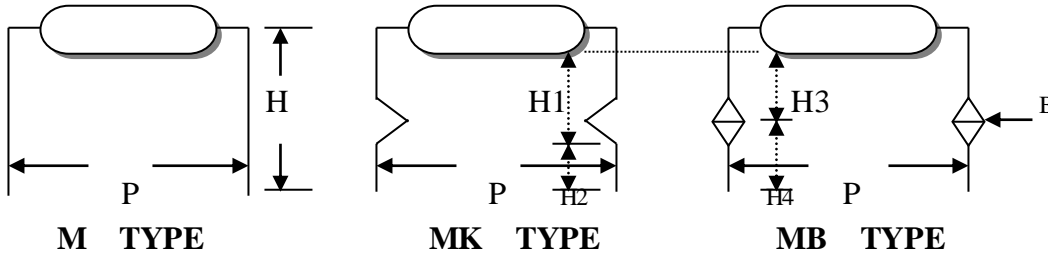
TYPE		L	D	H	d
KNP-25	1/4W	6.0 ± 1.5	2.3 ± 1.0	25 ± 3	0.54 ± 0.1
KNP-50S	1/2W				
KNP-100SS	1W				
KNP-50	1/2W	9.0 ± 1.5	3.2 ± 1.0	25 ± 3	0.58 ± 0.1
KNP-100S	1W				
KNP-100	1W	11 ± 1.5	4.5 ± 1.0	35 ± 3	0.75 ± 0.1
KNP-200S	2W				
KNP-200	2W	15 ± 1.5	5.0 ± 1.0	35 ± 3	0.75 ± 0.1
KNP-250S	2.5W				
KNP-300SS	3W	15 ± 1.5	5.0 ± 1.0	35 ± 3	0.75 ± 0.1
KNP-300S	3W				
KNP-300	3W	17 ± 1.5	6.0 ± 1.0	35 ± 3	0.75 ± 0.1
KNP-400	4W				
KNP-500S	5W	15 ± 1.5	5.0 ± 1.0	35 ± 3	0.75 ± 0.1
KNP-500	5W				
KNP-500B	5W	24 ± 1.5	8.0 ± 1.5	35 ± 3	0.75 ± 0.1
KNP-600	6W				
KNP-700S	7W	39 ± 2.0	8.0 ± 1.5	28 ± 3	0.75 ± 0.1
KNP-700	7W				
KNP-800	8W	52 ± 3.0	8.0 ± 1.5	35 ± 3	0.75 ± 0.1
KNP-1000S	10W				
KNP-1000	10W	39 ± 2.0	8.0 ± 1.5	28 ± 3	0.75 ± 0.1
KNP-1100S	11W				
KNP-1300	13W	52 ± 3.0	8.0 ± 1.5	35 ± 3	0.75 ± 0.1

Figure3



(1) FORMING PACKING

M / MK / MB= Forming horizontal type



Unit : m/m

TYPE	POWER	FORMING Type	P ± 1	H ±2.5	H1 ± 1	H2 ± 1	H3 ± 1	H4 ± 1
KNP-25 KNP-50S KNP-100SS	1/4W 1/2W 1W	M MK	10~	5~ —	— 5 8	— 3~	—	—
KNP-50 KNP-100S	1/2W 1W	M MK.MB	12.5~	10~ —	— 5 8	— 3~	— 5 8	— 5~
KNP-100 KNP-200S KNP-250S KNP-300SS	1W 2W 2.5W 3W	M MK.MB	15~	10~ —	— 5 8	— 3~	— 5 8	— 5~
KNP-200 KNP-300S KNP-500S	2W 3W 5W	M MK MB	20~	10~ —	— 5 8	— 3~	— 5 8	— 5~
KNP-300 KNP-400 KNP-500	3W 4W 5W	M MK MB	25~	10~ —	— 6	— 3~	— 6	— 5~

Remark: 1. B = 1.15 ~

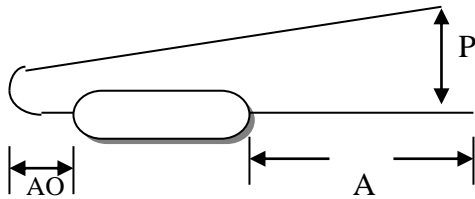
ALTERNATE MARKING METHOD ALSO AVAILABLE ON REQUEST.

Figure4

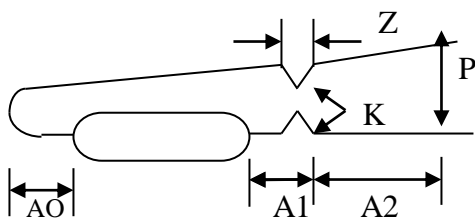


(2) FORMING PACKING

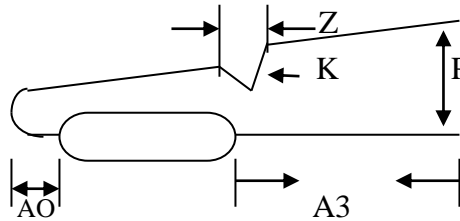
F / FK / FKK=Forming vertical type



F TYPE



FKK TYPE



FK TYPE

Unit : m/m

TYPE	POWER	FORMING Type	P ± 1	A ± 1	A1 ± 1	A2 ± 1	A3 ± 1	A0 Max
KNP-25 KNP-50S KNP-100SS	1/4W 1/2W 1W	F	5~10	25±3	—	—	—	4.0
		FK	5~10	—	—	—	25±3	4.0
		FK FKK	5~10	—	4	3~	5~	4.0
KNP-50 KNP-100S	1/2W 1W	F	5~10	5~	—	—	—	4.0
		FK	5~10	—	—	—	25±3	4.0
		FK FKK	5~10	—	4	3~	5~	4.0
KNP-100 KNP-200S KNP-250S KNP-300SS	1W 2W 2.5W 3W	F	5~10	5~	—	—	—	4.0
		FK FKK	5~10	—	4	3~	5~	4.0
		FK FKK	5~10	—	4	3~	5~	4.0
KNP-200 KNP-300S KNP-500S	2W 3W 5W	F	5~10	5~	—	—	—	4.0
		FK FKK	5~10	—	4	3~	5~	4.0
		FK FKK	5~10	—	4	3~	5~	4.0
KNP-300 KNP-400 KNP-500	3W 4W 5W	F	5~10	5~	—	—	—	4.0
		FK FKK	5~10	5~	4	3~	5~	4.0

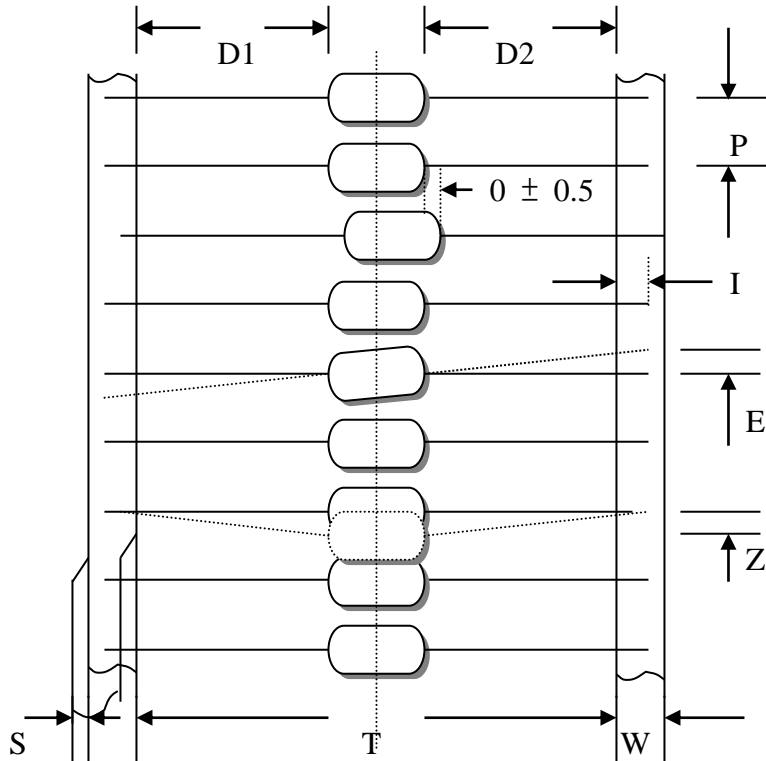
Remark: 1.Z = 3 ±1. K = 2 ±0.5,

ALTERNATE MARKING METHOD ALSO AVAILABLE ON REQUEST.

Figure5



(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.
KNP-25	1/4W	T-26	26 \pm 1.0	5	6	1.0	1	1.2	1	3
KNP-50S	1/2W	T-52	52 \pm 2.0	5	6	1.0	1	1.2	1	3
KNP-100SS	1W									
KNP-50	1/2W	T-52	52 \pm 2.0	5	6	1.2	1	1.2	1	3
KNP-100S	1W									
KNP-100	1W	T-74	74 \pm 2.0	5	6	1.4	1	1.2	1	3
KNP-200S	2W									
KNP-250S	2.5W									
KNP-300SS	3W									
KNP-200	2W	T-74	74 \pm 2.0	10	6	1.4	1	1.2	1	3
KNP-300S	3W									
KNP-500S	5W									
KNP-300	3W	T-74	74 \pm 2.0	10	6	1.4	1	1.2	1	3
KNP-400	4W									
KNP-500	5W									
KNP-500B	5W	T-86	86 \pm 2.0	10	6	1.4	1	1.2	1	3
KNP-600	6W									
KNP-700S	7W									

Figure6



7. CHARACTERISTICS

(1) Insulation Resistance

Test Method : Resistors shall be clamped in the trough of a 90 degree metallic V-block, apply DC 100V between this electrode and another lead wire for 1 minute.

Acceptance Standard : 1,000 M ohm above

(2) Terminal Strength

Test Method : Pull a resistor with a weight of 1 kg for 5 seconds. Bend the terminal lead wire with 500gs weight for 90 degree and bend it for 90 degree oppositely and return to normal.

Acceptance Standard : Resistance shall not change more than $\pm 1\%$.
No evidence of mechanical damage.

(3) Vibration

Test Method : Total amplitude of 1.5mm. The frequency shall vary from 10 HZ to 55 HZ, for approximate 1 second. Make this test in the direction parallel to the resistor axis, and up/down for 2 hours respectively. (altogether 6 hours.)

Acceptance Standard : Resistance shall not change more than $\pm 1\%$.
No evidence of mechanical damage.

(4) Short Time Overload

Test Method : Resistors shall be tested 2.5 times rated voltage for 5 seconds at ambient room temperature.

Acceptance Standard : Resistance shall not change more than $\pm 2\%$.
No evidence of mechanical damage.

**(5) Load Life**

Test Method : Thermostatic chamber at a temperature of $70\pm 5^{\circ}\text{C}$ under a rated DC voltage for 1.5 hours on and 1/2 hour off repeat this cycle for 1000 ± 12 hours.

Acceptance Standard : Resistance shall not change more than $\pm 5\%$.
No evidence of mechanical damage.

(6) Moisture Resistance

Test Method : At temperature of $40\pm 2^{\circ}\text{C}$ and a relative humidity of 90-95% for 1000 ± 12 hours, under a rating DC voltage for hours on and 1/2 hour off.

Acceptance Standard : Resistance shall not change more than $\pm 5\%$.
No evidence of mechanical damage.

(7) Temperature Cycling

Test Method :

STEP	1	2	3	4
TEMP	$-55\pm 3^{\circ}\text{C}$	$20\pm 5^{\circ}\text{C}$	$85\pm 2^{\circ}\text{C}$	$20\pm 5^{\circ}\text{C}$
TIME	30min.	10~15min.	30min.	10~15min.

Form 1 to 4 is a cycle as shown above, repeat 5 cycles
Measure resistance after 1 hour in normal temperature.

Acceptance Standard : Resistance shall not change more than $\pm 1\%$.
No evidence of mechanical damage.

(8) Resistance to Soldering Heat

Test Method : Immerse each terminal wire of a resistor up to $4\pm 0.8\text{mm}$ away from the resistor body in the solder tank at $350\pm 10^{\circ}\text{C}$ for 3 ± 0.5 seconds.
Measure resistance in 3 hours.

Acceptance Standard : Resistance shall not change more than $\pm 1\%$.
No evidence of mechanical damage.

**(9) Resistance to Solvent**

Test Method : immerse a resistor completely in reagent at a temperature of 20~25°C for 30±5 seconds.

Acceptance Standard : No evidence of mechanical damage.

(10) Dielectric Withstanding Voltage

Test Method : Resistors shall be clamped in the trough of a 90 degree metallic V-block, apply AC between this electrode and another lead wire for 1 minute.

Acceptance Standard : Resistance shall not change more than ±1%.
No evidence of mechanical damage.

(11) Solderability

Test Method : apply flux to the terminal wire of a resistor up to 4±0.8mm away from the resistor body and immerse the flux applied portion in the solder tank at 260±5°C for 3±0.5 seconds

Acceptance Standard : more than 95% of a circumference of the immersed portion shall be completely covered with new solder.

(12) Soldering Recommendation

Test Method : The Standard Length of epoxy on the terminal of our product is less than 1.5mm. Also, the Standard Welding Point must be over than 1.6mm from Resistor body.

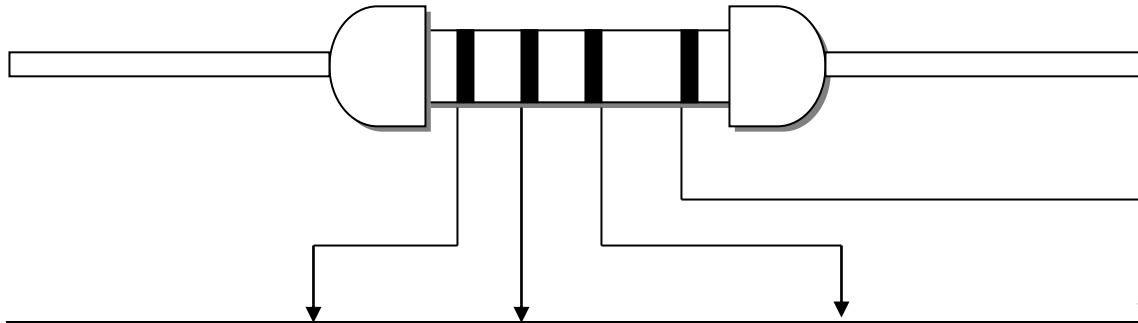
● Rated continuous Working Voltage (RCWV)

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



8. COLOR CODING

J (±5%)

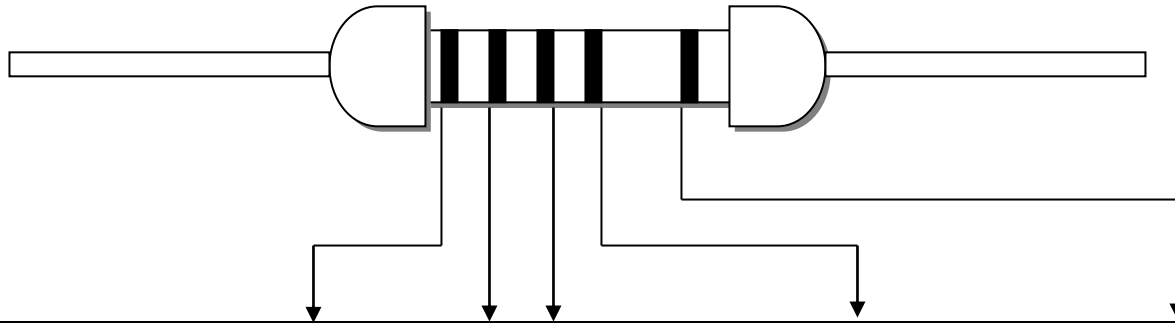


Color	1st, 2nd (Significant Figure)		3rd (Multiplier)	4th (Tolerance)
Black	0	0	10 ⁰	—
Brown	1	1	10 ¹	—
Red	2	2	10 ²	—
Orange	3	3	10 ³	—
Yellow	4	4	10 ⁴	—
Green	5	5	10 ⁵	—
Blue	6	6	10 ⁶	—
Violet	7	7	10 ⁷	—
Gray	8	8	10 ⁸	—
White	9	9	10 ⁹	—
Gold	—	—	10 ⁻¹	J (±5%)
Silver	—	—	10 ⁻²	—
Plain	—	—	10 ⁻³	—

Figure7



F (± 1%) G (± 2%)
D (± 0.5%)
C (± 0.25%)
B (± 0.1%)



Color	1st, 2nd 3rd (Significant Figure)			(Multiplier)	(Tolerance)
Black	0	0	0	10^0	—
Brown	1	1	1	10^1	F (±1%)
Red	2	2	2	10^2	G (±2%)
Orange	3	3	3	10^3	—
Yellow	4	4	4	10^4	—
Green	5	5	5	10^5	D (±0.5%)
Blue	6	6	6	10^6	C (±0.25%)
Violet	7	7	7	10^7	B (±0.1%)
Gray	8	8	8	10^8	—
White	9	9	9	10^9	—
Gold	—	—	—	10^{-1}	—
Silver	—	—	—	10^{-2}	—
Plain	—	—	—	10^{-3}	—

Figure8

- Stamping for marking of 7W and up.



SYNTRONIC CORPORATION

WIRE WOUND RESISTORS

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測試報告

Test Report

號碼(No.) : CE/2016/37945 日期(Date) : 2016/04/07

頁數(Page) : 1 of 9

欣統股份有限公司 / SYNTRONIC 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) : WIRE WOUND RESISTORS
 樣品型號(Style/Item No.) : KNP / NKNP TYPE
 收件日期(Sample Receiving Date) : 2016/03/29
 測試期間(Testing Period) : 2016/03/29 TO 2016/04/07

測試需求(Test Requested) :

- (1) 依據客戶指定，檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚、DBP, BBP, DEHP, DIBP. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 依據客戶指定，進行鹵素-氟、氯、氬、溴、碘測試。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.)

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


 Edison Chang / Sr. Supervisor
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

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IWB9221746

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SYNTRONIC CORPORATION

WIRE WOUND RESISTORS

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測試報告

Test Report

號碼(No.) : CE/2016/37945 日期(Date) : 2016/04/07

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欣統股份有限公司 / SYNTRONIC CORPORATION

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



測試結果(Test Results)

測試部位(PART NAME)No. 1 : 本體混測 (不含銀色金屬腳) (MIXED ALL PARTS OF BODY (EXCLUDING THE SILVER COLORED METAL PIN))

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
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5 (2013), 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.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5 (2013), 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.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4 (2013), 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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321 (2008), 以UV-VIS檢測。 / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	n. d.
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	mg/kg		50	n. d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1)	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.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2)	mg/kg		50	n. d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8)	mg/kg		50	n. d.

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SYNTECH CORPORATION

WIRE WOUND RESISTORS

File No. :	KNP-02-D
Version :	B
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測試報告 Test Report

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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
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321-6 (2015), 以氣相層析/ 質譜儀檢測。 / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n. d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n. d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	5	n. d.	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n. d.	

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SYNTECH CORPORATION

WIRE WOUND RESISTORS

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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
鄰苯二甲酸丁苄基酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-8/CD (2013). 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	參考IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg	參考IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	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	參考IEC 62321-8/CD (2013), 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.	50	n. d.

備註(Note) :

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. 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.)

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SYNTECH CORPORATION

WIRE WOUND RESISTORS

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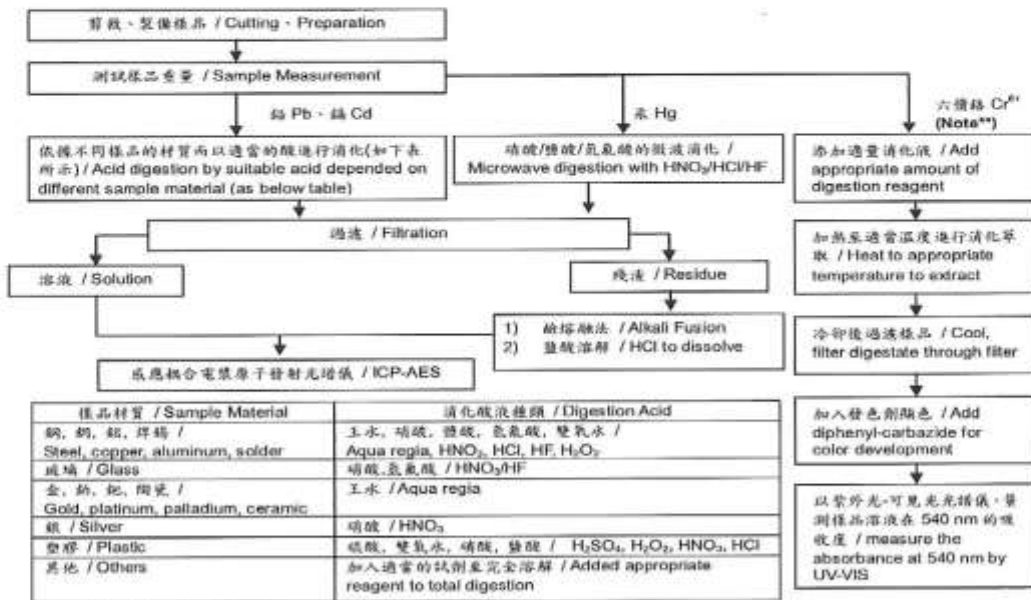
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- 1) 根據以下的流程图之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張政興 / 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°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90-95°C.
- (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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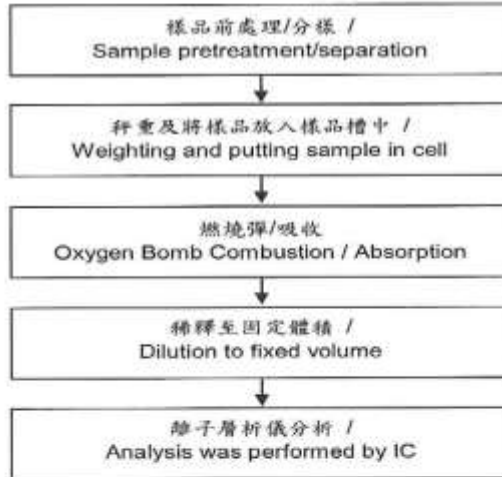
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鹵素分析流程圖 / Analytical flow chart - Halogen

- 測試人員：陳思臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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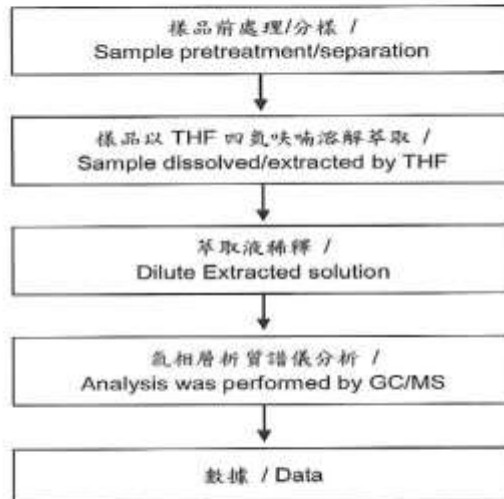
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可樂劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐鎮明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】



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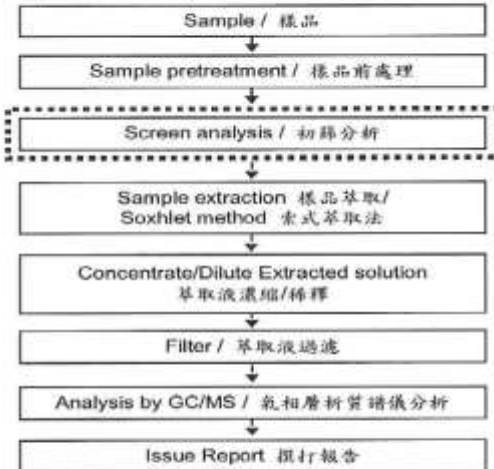
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：蔣勝彬 / Technician: Roman Wong
- 測試負責人：張啟興 / Supervisor: 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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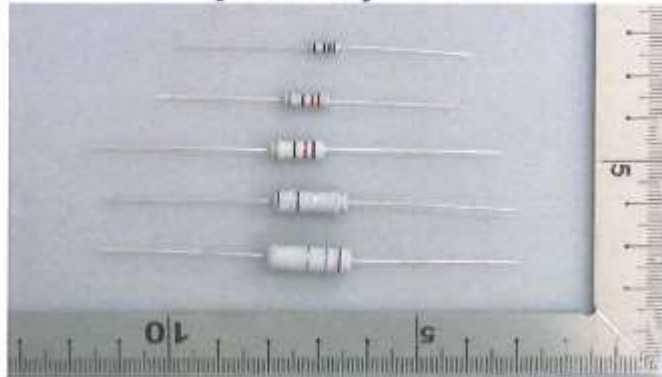
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

CE/2016/37945



** 報告結尾 (End of Report) **

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