

Spe	ecification	n for A	pprov	al
	Date: 2	2013/04/22		
	Customer :	東莞台慶		
	TAI-TECH P/N: HPC30	015F-SERIES		
	CUSTOMER P/N:			
	DESCRIPTION:			
	QUANTITY: 1	00 pcs		
REI	MARK:			
	Customer Ap	oproval Feedback		
		b 股 份 有 限 公 ed Electronics Co.,		
■ 西北臺慶科技股份有限公司 TAI-TECH Advanced Electro	onics Co., Ltd			
<u>Headquarter:</u> NO.1 YOU 4TH ROAD, YOUTH INDI TAO-YUAN HSIEN, TAIWAN, R.O.C.	JSTRIAL DISTRICT, YANG-MEI,	Sales Dep.	01/50//55	
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金亨國際有限公司 KAMHENG INTERNATIONA TEL: +86-852-25772033 FAX: +86-		APPROVED	CHECKED	DRAWN
 ■ 臺慶精密電子(昆山)有限公司 TAI-TECH ADVANCED ELECT SHINWHA ROAD, KUNJIA HI-TECH JIANG-SU, CHINA] RONICS(KUNSHAN) CO., LTD	楊祥忠	詹偉特	林宜蕰
TEL: +86-512-57619396 FAX: +86- E-mail: sales@tai-tech.cn	512-57619688	Mikey Yang	Jack Chan	Beryl Lin
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Power Inductor

HPC3015F-SERIES

	ECN HISTORY LIST										
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN						
1.0	13/04/22	新 發 行	楊祥忠	詹偉特	林宜蕰						
備											
註											

Power Inductor

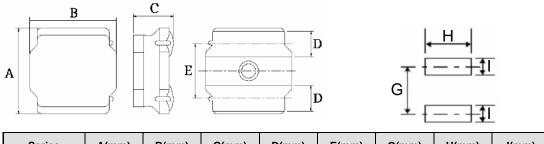
HPC3015F-SERIES

1. Features

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

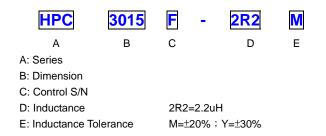
2. Dimension





Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	l(mm)
HPC3015F	3.0±0.1	3.0±0.1	1.5 max.	0.9±0.2	1.9±0.2	2.2 ref.	2.7 ref.	0.8 ref.
								Units: mm

3. Part Numbering



4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ±20%	l sat (A)	l rms (A)
HPC3015F-1R0Y	1.0	±30%	1V100K	100	0.030	2.10	2.10
HPC3015F-1R5Y	1.5	±30%	1V100K	87	0.040	1.80	1.82
HPC3015F-2R2M	2.2	±20%	1V100K	64	0.060	1.48	1.50
HPC3015F-3R3M	3.3	±20%	1V100K	49	0.080	1.21	1.23
HPC3015F-4R7M	4.7	±20%	1V100K	40	0.120	1.02	1.04
HPC3015F-6R8M	6.8	±20%	1V100K	36	0.160	0.87	0.88
HPC3015F-100M	10	±20%	1V100K	28	0.230	0.70	0.71
HPC3015F-150M	15	±20%	1V100K	23	0.360	0.56	0.56
HPC3015F-220M	22	±20%	1V100K	20	0.520	0.47	0.47

Note:

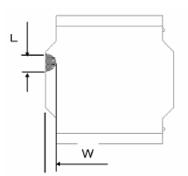
lsat : Based on inductance change $~~(\bigtriangleup L/L0$: $\leqq \text{-30\%}\,)$ @ ambient temp. 25 $^\circ\!\mathrm{C}$

Irms : Based on temperature rise $(\triangle T : 40^{\circ}C \text{ typ.})$

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Core chipping

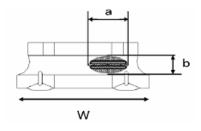
The appearance standard of the chipping size on top side, and bottom side ferrite core is listed below.



Туре	L	w
HPC3015F	0.6mm Max.	0.6mm Max.

Void appearance tolerance Limit

Size of voids occurring to coating resin is specified below.

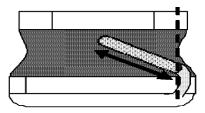


Exposed wire tolerance limit of coating resin part on product side.

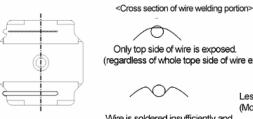
- Size of exposed wire occurring to coating resin is specified below. 1. Width direction (dimension a): Acceptable when $a \leq w/2$
 - Nonconforming when a > w/2
- 2. Length direction (dimension b): Dimension b is not specified.
- The total area of exposed wire occurring to each sides is 3. not greater than 50% of coating resin area, and is acceptable.

External appearance criterion for exposed wire

Exposed end of the winding wire at the secondary side should be 2mm and below.



5 Exectrde appearance criterion for exposed wire



<Appearance judgment>

Only top side of wire is exposed. (regardless of whole tope side of wire exposed)

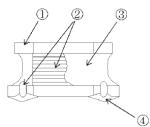


Less than 1/2 of joint side length. (More than 1/2 is selected as defect)

Conforming

Wire is soldered insufficiently and less than half of outer diameter is covered with solder.

6. Material List



No.	Item	Material
1	Core	Ni-Zn ferrite
2	Wire	Copper Wire
3	Coating	Epoxy with magnetic
4	Solder	Lead free

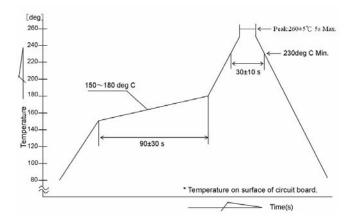
7. Reliability and Test Condition

Item	Performance	Test Method and Remarks
Operating Temperature	- 25 ~ +120℃.	Including self-generated heat
Storage Temperature	-40 ~ +85℃. - 5 to 40℃ for the product with taping.	
Rated current		
Inductance (L)	Within the specified tolerance	LCR Meter: HP 4285A or equivalent, 100kHz, 1V
DC Resistance		DC Ohmmeter: HIOKI3227 or equivalent
Temperature characteristics	Inductance change:Within±20%	Measurement of inductance shall be taken at temperature rang within–25°C to +85°C. With reference to inductance value at+20 °C,change rate shall be calculated. Measurement of inductance shall be taken at temperature rang within–40°C to +125°C. With reference to inductance value at+20 °C,change rate shall be calculated.
Resistance to flexure substrate	No damage.	The test samples shall be soldered to the testing board by the reflow. As illustrated below, apply force in the direction of the arrow indicating until deflection of the test board reaches to 2mm.
Adhesion of Terminal electrode	Shall not come off PC board.	The test samples shall be soldered to the testing board and by the reflow. 10 N, 5 s Applied force : 10 N to X and Y directions. Duration : 5s Solder cream thickness : 0.15
Resistance to Vibration	Inductance change : Within±10% No abnormality observed in appearance.	The test samples shall be soldered to the test board by the reflow. Then it shall be submitted to below test conditions. Frequency: 10-55Hz Total Amplitude: 1.5mm (May not exceed acceleration 196m/S2) Sweeping Method:10Hz to 55Hz to 10Hz for 1min. Time : 2 hours each in X,Y, and Z Direction. Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.
Solderability	At least 90% of surface of terminal electrode is covered by new solder.	The test samples shall be dipped in flux, and then immersed in molten solder as shown in below. Flux : methanol solution containing rosin 25% Solder temperature: $245\pm5^{\circ}$ Time: 5 ± 1.0 sec. Immersion depth: All sides of mounting terminal shall be immersed.

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Item	Performance	Test Method and Remarks
		Test board thickness:1.0mm Test board material:glass epoxy resin THE Chip shall be stabilized normal condition for1~2hours befor measuring
Resistance to soldering	Inductance change:Within±10% No abnormality observed in appearance.	Reflow Soldering PECHEATING SOLDERING NATURAL 20-40s $177_{(260^{\circ}C) / 40s max.}$ 25 TimE(sec.)
		The test samples shall be soldered to the test board by the reflow. The test samples shall be placed at specified temperature for specified time by step 1 to step 4 as shown below in sequence. The temperature cycles shall be repeated 100 cycles .
Thermal shock		Phase Temperature(°C) Time(min.)
		1 -55 ±2°C 30±3
		2 Room Temp Within 3
		3 85±2°C 30±3 4 RoomTemp Within 3
Damp heat life test		Test Method and Remarks The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity as shown in below. Temperature: $40\pm2^{\circ}$ Humidity: $90-95$ %RH Time: 504 ± 8 hrs.
Loading under damp heat life test	Inductance change : Within±10% No abnormality observed in appearance.	The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven set at specified temperature and humidity and applied the rated current continuously as shown in below. Temperature: $60\pm 2^{\circ}\mathbb{C}$ Humidity: $90-95\%$ RH Applied current: Rated current Time: $500+24/-0$ hrs
Low temperature life test		The test samples shall be soldered to the test board by the reflow. After that, the test samples shall be placed at test conditions as shown in below. Temperature:-40+2°C Time: 500±8 hrs.
Loading at high temperature life test		The test samples shall be soldered to the test board by the reflow. Temperature: 40±2°C. Applied current: Rated current Time: 500±8 hrs.

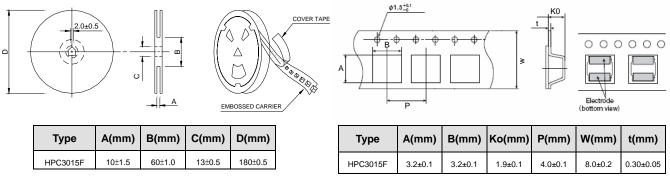
TAI-TECH 8. Soldering



9. Packaging Information

(1) Reel Dimension

(2) Tape Dimension



(3) Packaging Quantity

Туре	Chip / Reel
HPC3015F	2000

Application Notice

Storage Conditions

- To maintain the solderability of terminal electrodes:
- 1. TAI-TECH products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40 $^\circ\!{\rm C}$ and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.





測試報告 Test Report 號碼(No.): CE/2013/23406 日期(Date): 2013/03/01 页数(Page): 1 of 8

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD. (東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO. LTD.) (臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. 桃園縣楊梅市幼獅工業區幼四路1之1號 (NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.)

(廣東省東莞市黄江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG) (江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)	:	SMD POWER INDUCTOR
樣品型號(Style/Item No.)	:	HPC, SPC, UHP, SPC, TLPC, TLPH, SPI SERIES
收件日期(Sample Receiving Date)	:	2013/02/22
測試期間(Testing Period)	:	2013/02/22 TO 2013/03/01

測試需求(Test Requested) : (1)依據客户指定,進行鎬,鉛,汞,六價鉻,多溴聯苯,多溴聯苯醚測試.(As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

(2) 依據客户指定,進行鹵素-氟、氯、溴、碘測試. (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).



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(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG) (江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

<u>測試結果(Test Results)</u>

測試部位(PART NAME) No.1 : 整體混測(5款) (MIXED ALL PARTS(5 TYPES))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法,以感 應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法,以感 應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法,以感 應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	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.
鹵素 / Halogen				
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.
鹵素(氣)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)		參考BS EN 14582:2007,以離子層 析儀分析./ With reference to	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.

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

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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 (無規格値)
- 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别單一材質的含量. (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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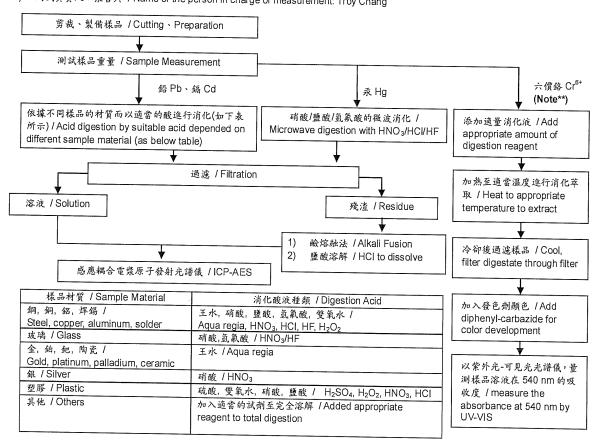
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> 根據以下的流程圖之條件,樣品已完全溶解。(六價 參測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
> 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
> 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note**:(1) 針對非金屬材料加入鹼性消化液,加热至 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,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

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

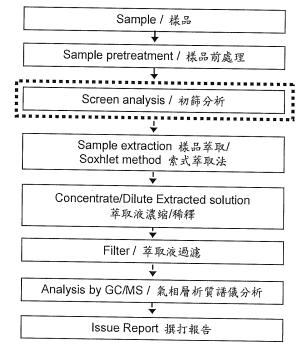
■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

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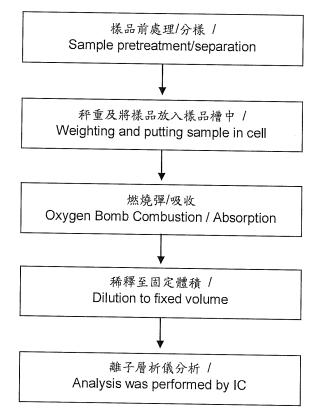
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 测試人員:陳恩臻 / 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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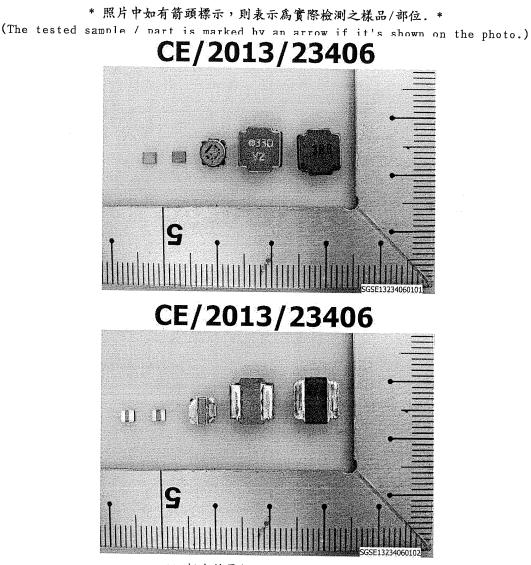
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