



# Specification for Approval

Date: 2015/04/27

Customer: 深圳臺慶

TAI-TECH P/N: PAS3225F-102J

CUSTOMER P/N:

DESCRIPTION:

QUANTITY: pcs

REMARK:Unit0.0698g

Customer Approval Feedback

西 北 臺 慶 科 技 股 份 有 限 公 司 TAI-TECH Advanced Electronics Co., Ltd

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楊祥忠	徐鋒強	孔妍暄
Mike Yang	Gemini Hsu	Chloe Kung

# Winding Type Chip Inductor

PAS3225F-102J

	ECN HISTORY LIST										
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN						
1.0	15/04/27	新 發 行	楊祥忠	徐鋒強	孔妍暄						
備											
註											

# **Winding Type Chip Inductor**

PAS3225F-102J

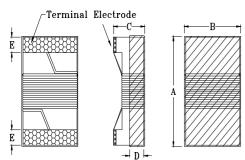
### 1. Features

- 1. Ferrite core wire wound construction.
- 2. High Reliability due to wire wound type construction.
- 3. Small footprint as well as low profile.
- 4. Application for DC power line.
- 5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.





### 2. Dimension



Size	Α	В	С	D	E
PAS3225	3.60 max.	2.80 max.	2.60 max.	0.80 ref.	0.55±0.1

Unit:mm

### 3. Part Numbering



A: Series

B: Dimension L x W

C: Application DC Power Line

D: Lead free

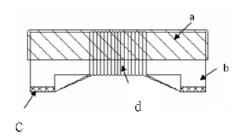
E: Inductance 102=1080 uHF: Inductance Tolerance  $J=\pm 5\%$ 

### 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q min.	Test Frequency (KHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
PAS3225F-102J	1080	J	0.1V/125K	15	125K	50	35	1.5

### 5. Materials

No.	Description	Specification
a.	Upper Plate	UV Glue
b.	Core	Ferrite Core
С	Termination	Tin Pb Free
d	Wire	Enameled Copper Wire



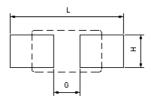
### 6. Reliability and Test Condition

Item	Performance	Test Condition				
Operating Temperature	-40~+125°C					
Storage Temperature(on board)						
Electrical Performance Te	est					
Inductance L		A mile and 4004. A m	-111 40	207 A vila v. F 400		
Q		287 Agilent-E499 <sup>-</sup>	_			
SRF	Refer to standard electrical characteristic list	ilent-E4	991			
DC Resistance		Agilent-4338				
Rated Current				oils, the inductant	ce change sha	all be less
Mechanical Performance	Test	than 20% to initi	ai value	9.		
			ı	Temperature	T	1
	Appearance: No damage.  Inductance: within±10% of initial value	Temperature (°C)	Ti me (s)	ramp/immersio n and emersion rate	Number of heat cycles	
Solder Heat Resistance	Q : Shall not exceed the specification value.	260 ±5 (solder temp)	10 ±1	25mm/s ±6 mm/s	1	
	RDC: within ±15% of initial value and shall not exceed the specification value			•		1
		Depth: complete	ly cove	r the termination		
		Preheat: 150°C,60sec. ∘ Solder: Sn99.5%-Cu0. 5% ∘ Temperature: 245±5°C ∘				
Solderability Test	More than 95% of terminal electrode should be covered with solder.	Flux for lead free: Rosin. 9.5% • Dip time: 4±1sec •				
		Depth: completely cover the termination				
Reliability Test	I					
		Preconditioning:R J-STD-020DClass		ugh IR reflow for 2 n Reflow Profiles	times.( IPC/JE	EDEC
Life Test		Temperature : 125 Temperature : 85				
		Applied current:				
		Duration: 1000±		ature after placing	for 24+2 hrs	
		Preconditioning:R	un throu	igh IR reflow for 2		EDEC_
		J-STD-020DClassification Reflow Profiles  Step1: -40±2°C 30±5min				
Thermal shock	Appearance: No damage.	Step2 : 25±2°C ≦	≦0.5min			
	Inductance: within±10% of initial value	Step3 : 105±2℃	30±5mir	1		
	Q: Shall not exceed the specification value.	Number of cycles Measured at room		ature after placing	for 24±2 hrs	
	RDC: within ±15% of initial value and shall not exceed the specification value	Preconditioning:R J-STD-020DClass	un throu	ugh IR reflow for 2 n Reflow Profiles	times.( IPC/JE	EDEC
Humidity Resistance Test		Humidity: 85±2%	6 R.H,			
		Temperature: 85°C±2°C  Duration: 1000hrs Min. with 100% rated current				
		Measured at room	tempera	with 100% rated cu ature after placing agh IR reflow for 2	for 24±2 hrs	EDEC
Vibration Test		J-STD-020DClass	sification			<u></u>
Vibration Test		Equipment : Vi	bration	checker	. 20 minutes	
		Testing Time :		urs(20 minutes,	12 cycles e	ach of 3
		orientations) ·				

### 7. Soldering and Mounting

#### 7-1. Recommended PC Board Pattern

Chip size							l Pattern ow Sold		
Series	Туре	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	L(mm)	G(mm)	H(mm)
PAS	3225	3.60max	2.80max	2.60max	0.80 ref.	0.55±0.1	3.82	1.78	2.80



PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideway direction to against the mechanical stress to prevent failure.

#### 7-2. Soldering

Mildly activated rosin fluxes are preferred. TAI-TECH terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

#### 7-2.1 Solder re-flow:

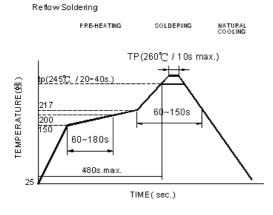
Recommended temperature profiles for re-flow soldering in Figure 1.

#### 7-2.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

- Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm

- 280°C tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 3 sec.



Reflow times: 3 times max.

Fig.1

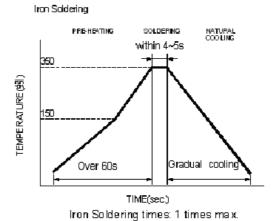
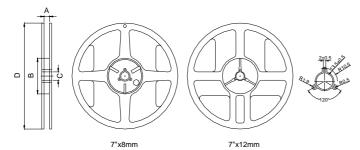


Fig.2

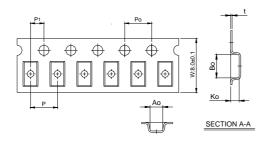
### 8. Packaging Information

#### 8-1. Reel Dimension



Туре	A(mm)	B(mm) C(mm)		D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2

#### 8-2. Tape Dimension / 8mm

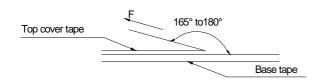


Series	Size	P(mm)	Po(mm)	P1(mm)	Bo(mm)	Ao(mm)	Ko(mm)	t(mm)
PAS	3225	4.0±0.1	4.0±0.1	2.0±0.1	3.72±0.10	2.88±0.10	2.50±0.10	0.26±0.05

#### 8-3. Packaging Quantity

SWF	3225
Chip / Reel	2000
Reel Size	7"x8mm

### 8-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed	
(℃)	(%)	(hPa)	mm/min	
5~35	45~85	860~1060	300	

### **Application Notice**

- Storage Conditions(component level)
- To maintain the solderability of terminal electrodes:
- ${\tt 1.TAI-TECH\ products\ meet\ IPC/JEDEC\ J-STD-020D\ standard-MSL,\ level\ 1.}$
- 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.
- ${\it 3. Bulk\ handling\ should\ ensure\ that\ abrasion\ and\ mechanical\ shock\ are\ minimized.}$





# **Test Report**

號碼(No.): CE/2013/C5950 日期(Date): 2014/01/07 頁數(Page): 1 of 12

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. LTD.)

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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) : WIREWOUND SERIES

樣品型號(Style/Item No.)

: TWI, SWF, SWC\_F, PAS SERIES

收件日期(Sample Receiving Date)

: 2013/12/30

測試期間(Testing Period)

: 2013/12/30 TO 2014/01/07

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



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### 測試結果(Test Results)

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

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
鎬 / 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.
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.
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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.

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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
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117- 84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84- 69-5)	%	参考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



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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
六溴環十二烷及所有主要被辨别出的 異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	参考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.
多溴聯苯總和 / Sum of PBBs	mg/kg	参考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.
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.

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# **Test Report**

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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
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		. <u>-</u>	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		<sup>5-7</sup> 5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg	   参考IEC 62321: 2008方法,以氣相層析/質	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	62321: 2008 and performed by GC/MS.	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.
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.
鹵素(氣)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		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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#### 備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限値)
- 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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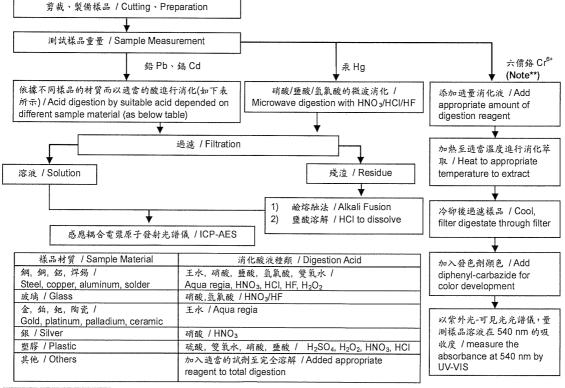
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- 1) 根據以下的流程圖之條件,樣品己完全溶解。( 六價 多測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. ( Cr et test method excluded )
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人: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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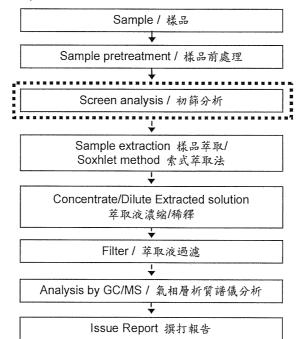
#### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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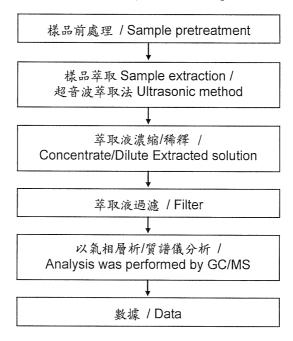
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### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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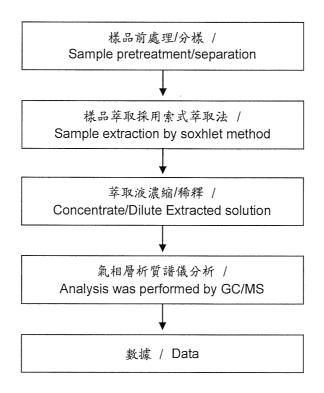
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### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

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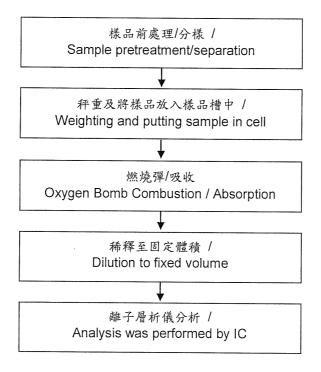
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### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員: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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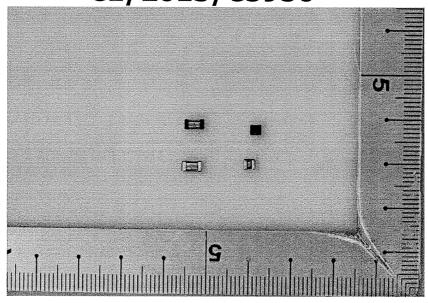
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\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \*

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

CE/2013/C5950



\*\* 報告結尾 (End of Report) \*\*

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