Telecoil-antennas Inductors

PAS4420F-352K-F10

	ECN HISTORY LIST								
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN				
1.0	16/01/27	新發行	楊祥忠	徐鋒強	孔妍暄				
備									
註									

Telecoil-antennas Inductor

1.Features

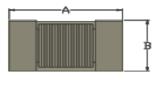
- 1. Hearing Aid Compatibility-/Telecoil-antennas;
- 2. PAS4420F-series realizes small size and low profile. 4.4x2.0x2.0 mm.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

4. Meets the T3 FCC requirements(HAC-Act) acc. ANSI C63.19

2. Applications

- 1. T-coil/HAC-coil for hearing and aid compatible cell phones .
- 2. Decoupling in RF and IF-circuit .
- 3. Transponder antenna .

3. Dimensions

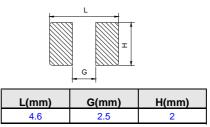


 Size
 A(mm)
 B(mm)
 C(mm)
 D(mm)

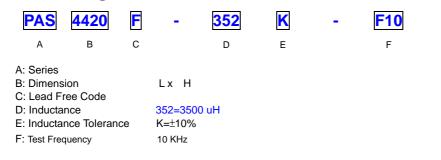
 PAS4420F
 4.55±0.25
 2.2±0.25
 2.0±0.2
 0.98 ref.

Units : mm

Recommend PC Board Pattern



4. Part Numbering



5. Specification

Part Number	Inductance	flo	SRF	RDC	Rated current	
	(uH) ±10%	(kHz)	MHz(min)	(Ω) max	(mA) max.	
PAS4420F-352K-F10	3500	10	1	85	20	

Note:

1. Test frequency : Inductor(L) : 10KHz /0.1V;

2. .All test data referenced to 25 $^\circ\!\!\mathbb{C}$ ambient.

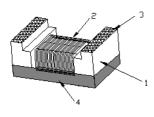
PAS4420F-352K-F10



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6. Material List



NO	Items	Materials		
1	Core	Ferrite		
2	Wire	Copper Wire		
3	Terminal	Tin (Pb free)		
4	Adhesive	UV or Epoxy		

7. Reliability and Test Condition

ltem	Performance Test Condition					
Operating temperature	-40~+125°C (Including self - temperature rise)					
Storage temperature	erature -40~+125°C (on board)					
Electrical Performance Test						
Inductance		HP4284A,CH11025,CH3302,CH1320,CH1320S				
Inductance	Refer to standard electrical characteristics list.	LCR Meter.				
DCR		CH16502,Agilent33420A Micro-Ohm Meter.				
Soturation Current (loot)	∆L≦20% typical.	Saturation DC Current (Isat) will cause L0				
Saturation Current (Isat)		to drop				
		Heat Rated Current (Irms) will cause the coil temperature rise				
Lipst Dated Current (Impa)	Approximately ∆T≦40℃	$ riangle T(^\circ\!\mathbb{C})$ without core loss.				
Heat Rated Current (Irms)		1.Applied the allowed DC current(keep 1 min.).				
		2. Temperature measured by digital surface thermometer				

Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow Profiles) Femperature : 125±2°C Applied current : rated current Duration : 1000±12hrs Measured at room temperature after placing for 24±2 hrs Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow Profiles Humidity : 85±2%R.H, Femperature : 85°C±2°C Duration : 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow Profiles
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Temperature : 85℃ ±2℃ Duration : 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow
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Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow
I-STD-020DClassification Reflow
I. Baked at50°C for 25hrs, measured at room temperature after Jacing for 4 hrs. 2. Raise temperature to $65\pm2°C$ 90-100%RH in 2.5hrs, and teep 3 hours, cool down to $25°C$ in 2.5hrs. 3. Raise temperature to $65\pm2°C$ 90-100%RH in 2.5hrs, and teep 3 hours, cool down to $25°C$ in 2.5hrs,keep at $25°C$ for 2 hrs then keep at $-10°C$ for 3 hrs 4. Keep at $25°C$ 80-100%RH for 15min and vibrate at the requency of 10 to 55 Hz to 10 Hz, measure at
oom temperature after placing for 1~2 hrs.
Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC I-STD-020DClassification Reflow Profiles Condition for 1 cycle Step1 : -40+2°C 30±5min
Step2 : 25±2°C ≦0.5min
Step3 : 125±2℃ 30±5min
Number of cycles: 500
Measured at room temperature after placing for 24±2 hrs Discillation Frequency: 10 ~ 2K ~ 10Hz for 20 minutes
Equipment : Vibration checker

Item	Performance	Test Condition				
Shock	Appearance : No damage.	Type Peak value (g' s) Normal duration (D) (ms) Wave form Wave form Velocity change (Vi)ft/sec SMD 50 11 Half-sine 11.3				
Bending	Inductance : within±10% of initial value Q : Shall not exceed the specification value. RDC : within ±15% of initial value and shall not exceed the specification value	Lead 50 11 Half-sine 11.3 Shall be mounted on a FR4 substrate of the following dimensions: >=0805:40x100x1.2mm <0805:40x100x0.8mm				
Soderability	More than 95% of the terminal electrode should be covered with solder。	Preheat: 150°C,60sec.。 Solder: Sn96.5% Ag3% Cu0.5% Temperature: 245±5°C。 Flux for lead free: Rosin. 9.5%。 Dip time: 4±1sec。 Depth: completely cover the termination				
Resistance to Soldering Heat	Appearance : No damage. Inductance : within±10% of initial value Q : Shall not exceed the specification value. RDC : within ±15% of initial value and shall not exceed the specification value	Number of heat cycles: 1 Temperature (°C) Time(s) Temperature ramp/immersion and emersion rate 260 ±5(solder temp) 10 ±1 25mm/s ±6 mm/s				
Terminal Strength		Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force (>0805:1kg, <=0805:0.5kg)to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested.				
		DUT substrate press tool				

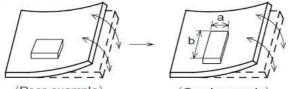
8. Soldering and Mounting

8-1. Attention regarding P.C.B. bending

The following shall be considered when designing P.C.B.'S

(1)P.C.B. shall be designed so that products are not subjected to the mechanical stress for board warpage.

<Products direction>

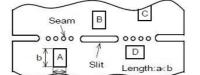


(Poor example)

(Good example)

Products shall be located in the sideways direction

(Length :a<b) to against the mechanical stress.



(2) Products location on P.C.B.

Products (A,B,C,D) shall be located carefully

to prevent mechanical stress when warping the board.

Products may be subjected to the mechanical

stress in the order of A>C>B = D.

8-2. 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.

8-2.1 Solder re-flow:

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

8-2.2 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

Preheat circuit and products to 150℃

+ 355 $^\circ\!\!\mathbb{C}$ tip temperature (max)

· 1.0mm tip diameter (max)

Limit soldering time to 4~5 sec.

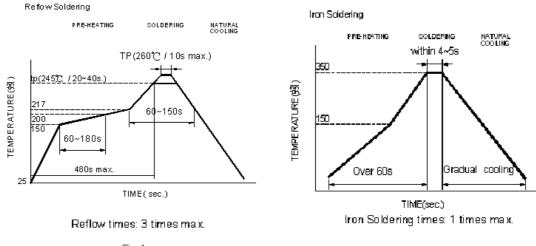


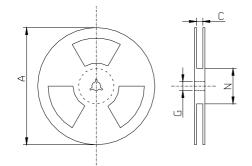
Fig.1

Fig.2

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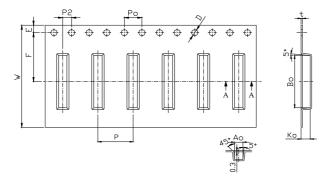
9. Packaging Information

9-1. Reel Dimension



Туре	A(mm)	C(mm)	G(mm)	N(mm)	
7"x12mm	180±2	16.5±1	13.5±0.5	100±2	

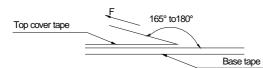
9-2. Tape Dimension / 12mm



9-3. Packaging Quantity

Chip size	4420		
Reel	1000		
Reel Size	7"x12mm		

9-4. Tearing Off Force



Series	Size	P(mm)	Po(mm)	P2(mm)	Bo(mm)	Ao(mm)	Ko(mm)	t(mm)
PAS	4420	8.0±0.1	4.0±0.1	2.0±0.1	5.00±0.10	2.5±0.10	2.1±0.10	0.3±0.05
Series	Size	D(mm)	E(mm)	F(mm)	W(mm)			
PAS	4420	1.5+0.1/-0	1.75±0.1	5.5±0.1	12±0.30			

The force for tearing off cover tape is 10 to 80 grams in the arrow direction under the following conditions(referenced ANSI/EIA-481-C-2003 of 4.11

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

Application Notice

Storage Conditions (component level)

- 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 $^\circ\!C$ $\,$ 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.

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測試報告 **Test Report**

號碼(No.): CE/2015/92842

日期(Date): 2015/09/15

頁數(Page): 1 of 4

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑚科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C. (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) (桃園市中壢區中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN) (江蘇省宿還市泗洪縣經濟開發區金沙南路-高新技術產業園 / HIGH-TECH INDUSTRIAL DISTRICT, JINSHAJIANG ROAD, SIHONG COUNTY ECONOMIC, SUQIAN CITY, JIANGSU)

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(FILM BACKING)
樣品型號(Style/Item No.)	:	TWI、SWF、SWC_F、PAS、WCM-L2NF、WCM-F2SNF SERIES
收件日期(Sample Receiving Date)	:	2015/09/11
測試期間(Testing Period)	:	2015/09/11 TO 2015/09/15

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



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測試報告 Test Report

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<u>測試結果(Test Results)</u>

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 極限值 (MDL)	結果 (Result) No.1
绨 / Antimony (Sb)		參考US EPA 3052方法,以感應耦合電漿原 子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	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. 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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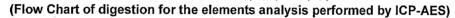
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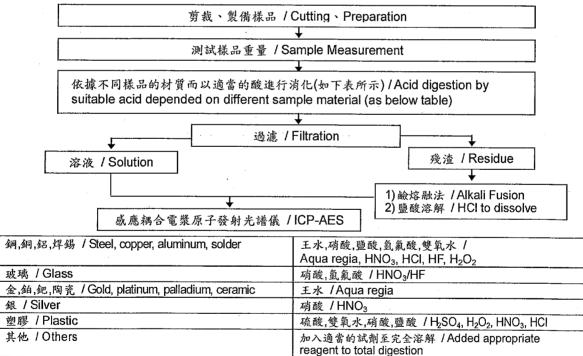
- 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 测試負責人:張啟興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

日期(Date): 2015/09/15

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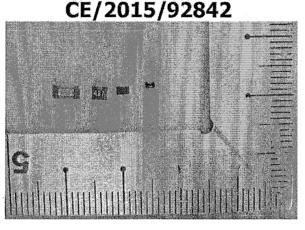
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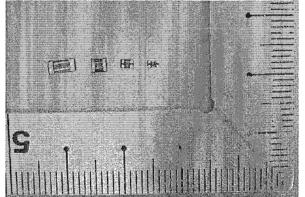
(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.) (慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.) 桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C. (江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA) (桃園市中壢區中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

(江蘇省宿還市泗洪縣經濟開發區金沙南路-高新技術產業園 / HIGH-TECH INDUSTRIAL DISTRICT, JINSHAJIANG ROAD, SIHONG COUNTY ECONOMIC, SUQIAN CITY, JIANGSU)

* 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/2015/92842



** 報告結尾 (End of Report) **

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