High Frequency Winding Type Chip Inductor SWI0603F-SERIES

		ECN HISTORY	LIST		
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	11/12/30	新 發 行	楊祥忠	徐鋒強	卓秀美
1.1	12/10/16	修改包裝帶規格	楊祥忠	徐鋒強	卓秀美
備					
註					

High Frequency Winding Type Chip Inductor SWI0603F-SERIES

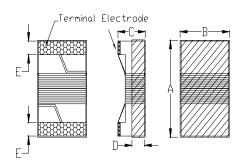
1. Features

- 1.Ceramic core wire wound construction.
- 2.No batch to batch variations in inductance
- 3. High Reliability due to ceramic wire wound construction.
- 4. High frequency application.
- 5.Small footprint as well as low profile.
- 6.100% Lead(Pb) & Halogen-Free and RoHS compliant.





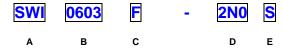
2. Dimensions



Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SWI0603	1.80 max.	1.20 max.	1.20 max.	0.38 ref.	0.35±0.1

Unit:mm

3. Part Numbering



A: Series

B: Dimension LxW

C: Lead free type

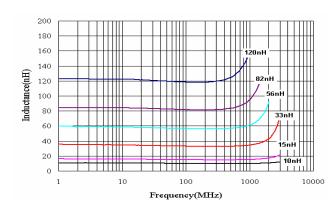
D: Inductance 2N0=2.0nH

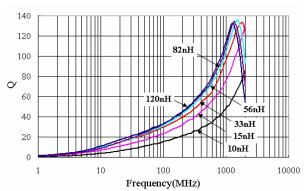
E: Inductance Tolerance $C=\pm0.2nH$, $S=\pm0.3nH$, $J=\pm5\%$, $K=\pm10\%$

4. Specification

Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0603F-2N0	2.0	C,S	0.1V/250M	13	700	0.07	8000
SWI0603F-3N9	3.9	C,S	0.1V/250M	22	700	0.07	6900
SWI0603F-4N7	4.7	C,S	0.1V/250M	20	700	0.12	5800
SWI0603F-6N8	6.8	C,J,K	0.1V/250M	27	700	0.08	5800
SWI0603F-8N2	8.2	C,J,K	0.1V/250M	30	700	0.13	4200
SWI0603F-10N	10	J,K	0.1V/250M	31	700	0.13	4800
SWI0603F-12N	12	J,K	0.1V/250M	35	700	0.13	4000
SWI0603F-15N	15	J,K	0.1V/250M	35	700	0.13	4000
SWI0603F-18N	18	J,K	0.1V/250M	35	700	0.16	3100

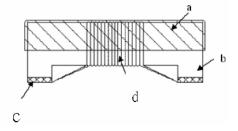
Part Number	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q @ 250MHz min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
SWI0603F-22N	22	J,K	0.1V/250M	38	700	0.23	3000
SWI0603F-24N	24	J,K	0.1V/250M	38	700	0.13	2800
SWI0603F-27N	27	J,K	0.1V/250M	40	600	0.14	2800
SWI0603F-33N	33	J,K	0.1V/250M	40	600	0.22	2300
SWI0603F-39N	39	J,K	0.1V/250M	40	600	0.30	2200
SWI0603F-47N	47	J,K	0.1V/200M	38	600	0.35	2000
SWI0603F-56N	56	J,K	0.1V/200M	38	600	0.37	1900
SWI0603F-68N	68	J,K	0.1V/200M	37	600	0.43	1700
SWI0603F-72N	72	J,K	0.1V/150M	34	400	0.42	1700
SWI0603F-82N	82	J,K	0.1V/150M	34	400	0.71	1700
SWI0603F-R10	100	J,K	0.1V/150M	34	400	0.78	1400
SWI0603F-R12	120	J,K	0.1V/150M	32	300	0.84	1300
SWI0603F-R15	150	J,K	0.1V/150M	28	280	0.96	990
SWI0603F-R18	180	J,K	0.1V/100M	25	240	1.52	990
SWI0603F-R22	220	J,K	0.1V/100M	25	200	2.02	900
SWI0603F-R27	270	J,K	0.1V/100M	24	170	2.36	900
SWI0603F-R33	330	J,K	0.1V/100M	24	185	3.40	700
SWI0603F-R39	390	J,K	0.1V/100M	24	100	3.60	900





5. Materials

No. Description		Specification
a.	Туре	UV Glue
b.	Core	Ceramics Core
С	Termination	Tin Pb Free
d	Wire	Enameled Copper Wire



6. Reliability and Test Condition

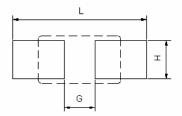
Item		Perform	ance		Test Condition
Operating Temperature	-40~+85°C (For produ	cts in unopened tape	package, less t	han 40°C)	
Electrical Performance	Test				1
Inductance L					Anilogi 4204 Anilogi 4207
Q					Agilent-4291, Agilent-4287
SRF	Refer to standard e	electrical characterist	ic list		Agilent-4291
DC Resistance					Agilent-4338
Rated Current					Applied the current to coils, the inductance change shall be less than 20% to initial value.
Mechanical Performand	ce Test				
Resistance to Soldering Heat MIL-STD-202 METHOD 210	Inductance : withi Inductance : withi	n ±0.3nH of initial val n ±10% of initial valu e more than ± 20%.	Temp.: 260±5°C Time: 10±1.0 Sec		
Solderability Test ANSI/J-STD-002	More than 95% of ter	minal electrode shou	ith solder.	Preheating Dipping Natural cooling 235°C 150°C 60 4±1 second After fluxing, component shall be dipped in a melted solder bath at 235±5°C for 4±1seconds.	
Component Adhesion (Pull test)		Series No. SWI0402 SWI0603 SWI0805 SWI1008	F(Kg) 0.3(min.) 0.5(min.) 1.0(min.)		The device should be reflow soldered(255±5°C for 10sec.)to a tinned copper substrate. A dynometer force gauge should be applied the side of the component. The device mus with-ST-F kg without ailure of the termination attached to component. Core Class Epoxy Substrate with Copper Clad 1.Insert 10cm wire into the remaining open eye bend, the ends of even wire lengths upward and wind together. 2.Terminal shall not be remarkably damaged.

Item	Performance	Test Condition			
Reliability Test		-			
Humidity Test MIL-STD-202 METHOD 103 Thermal Shock Test MIL-STD-202 METHOD 107	1. Visual examination: No mechanical damage 2. Inductance: within±10% of initial value 3. Q: within±20% of initial value	1.Temperature : 40±2°C 2.Humidity : 90 ~ 95% 3.Time : 500 ±8hrs 4.Measured at room temperature after placifor 2 to 3 hrs Conditions for 1 cycle Step Temperature(°C) Times(min.) 1 -55±2 30±3 2 Room Temperature Within5 2 85±5 30±3 Total:100 cycles Measured at room temperature after			
High Temperature Life Test MIL-STD-202 METHOD 108 Humidity Resistance Test MIL-STD-202 METHOD 103 Low temperature Storage Test	3.Q · witnin±20%of initial value	placing for 2 to 3 hrs 1.Temperature: 85±2°C 2.Time: 500±8hrs 3.Measured at room temperature after placing for 2to3 hrs 1.Temperature:40±2°C 2.Humidity:90~95% 3.Time:500±8hr. 4.Recovery:2 to 3hrs of recovery under the standard condition after the removal from test chamber. 1.Temperature: -40±2°C 2.Time: 500±8hrs 3.Measured at room temperature after placing			
JESD22-A119		for 2to3 hrs Frequency: 10-55-10Hz for 15 min. Amplitude: 1.52mm			
Random Vibration Test MIL-STD-202 Method 204	Appearance: Cracking, shipping and any other defects harmful to the characteristics should not be allowed. Impedance: within±30%	Directions and times: X, Y, Z directions for 15 min. This cycle shall be performed 12 times in each of three mutually perpendicular directions (Total 9hours).			

7. Soldering and Mounting

7-1. Recommended PC Board Pattern

	Chip size							l Pattern ow Sold	
Series	Series Type A(mm) B(mm) C(mm) D(mm) E(mm)					L(mm)	G(mm)	H(mm)	
SWI	0603	1.80max.	1.20max.	1.20max	0.38 ref	0.35±0.1	1.92	0.64	1.02



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.

- Note: Preheat circuit and products to 150°C 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.

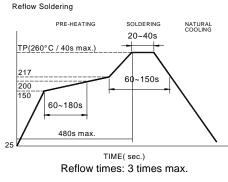
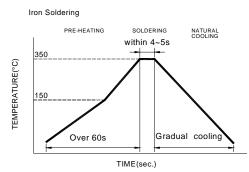


Fig.1

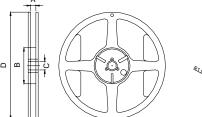


Iron Soldering times: 1 times max.

Fig.2

8. Packaging Information

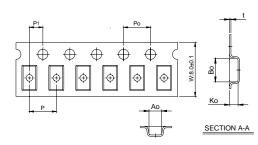
8-1. Reel Dimension





Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	8.4±0.5	60±2	13.5±0.5	178±2

8-2.1 Tape Dimension / 8mm(black anti-static electricity carrier tape)

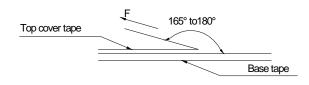


Series	Size	P(mm)	Po(mm)	P1(mm)	Bo(mm)	Ao(mm)	Ko(mm)	t(mm)
SWI	0603	4.0±0.1	4.0±0.1	2.0±0.05	1.88±0.05	1.30±0.05	1.10±0.05	0.20±0.02

8-3. Packaging Quantity

Chip size	0603
Reel	3000
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

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° 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/2012/37271 日期(Date) : 2012/04/03 頁數(Page) : 1 of 7

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.)

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黄牛埔福祥街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 WIRE INDUCTOR

樣品型號(Style/Item No.)

SWI, SWC_I SERIES

收件日期(Sample Receiving Date)

2012/03/28

測試期間(Testing Period)

2012/03/28 TO 2012/04/03

測試結果(Test Results)

請見下一頁 (Please refer to next pages).

Chenyu Kung / Qperátion Manage Signed for and on benalfie SGS TAIWAN LTD.

Chemical Laboratory - Taipei

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測試報告 Test Report

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測試結果(Test Results)

10

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: 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	参考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.
六價絡 / Hexavalent Chromium Cr(VI)	mg/kg	冬考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(氣)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		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)		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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测試報告

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
多溴聯苯總和 / Sum of PBBs 一溴聯苯 / Monobromobiphenyl	mg/kg	參考IEC 62321: 2008方法,以氣相層析儀/質譜儀檢測./ With reference to IEC 62321: 2008 and performed by GC/MS.	- 5	n.d.
二溴聯苯 / Dibromobiphenyl 三溴聯苯 / Tribromobiphenyl			5 5	n.d. n.d.
四溴聯苯 / Tetrabromobiphenyl 五溴聯苯 / Pentabromobiphenyl			5 5	n.d.
六溴聯苯 / Hexabromobiphenyl 七溴聯苯 / Heptabromobiphenyl 八溴聯苯 / Octabromobiphenyl			5 5 5	n.d. n.d. n.d.
九溴聯苯 / Nonabromobiphenyl 十溴聯苯 / Decabromobiphenyl			5 5	n.d.
多溴聯苯醚總和 / Sum of PBDEs 一溴聯苯醚 / Monobromodiphenyl ether			5	n.d. n.d.
二溴聯苯醚 / Dibromodiphenyl ether 三溴聯苯醚 / Tribromodiphenyl ether			5 5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether 五溴聯苯醚 / Pentabromodiphenyl ether 六溴聯苯醚 / Hexabromodiphenyl ether			5 5 5	n.d. n.d. n.d.
七溴聯苯醚 / Heptabromodiphenyl ether 八溴聯苯醚 / Octabromodiphenyl ether			5 5	n.d. n.d.
九溴聯苯醚 / Nonabromodiphenyl ether 十溴聯苯醚 / Decabromodiphenyl ether			5 5	n.d. 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)
- ♪ ¼. "-" = 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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測試報告 Test Report

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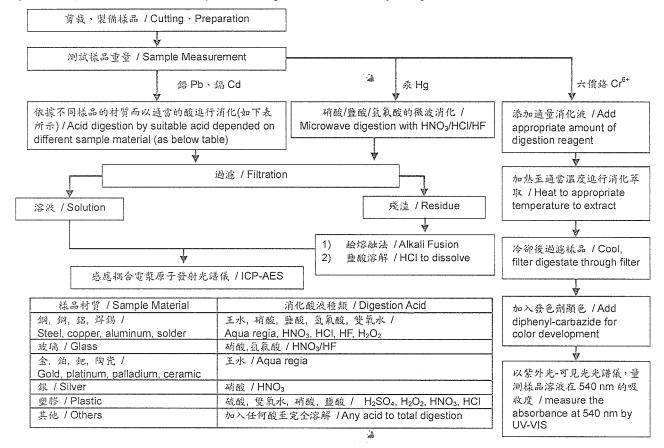
西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

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

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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)
- 測試人員: 楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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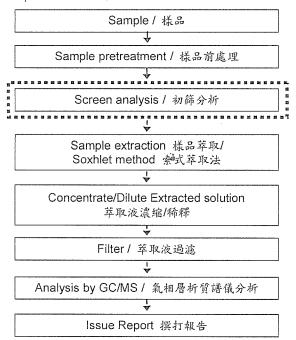
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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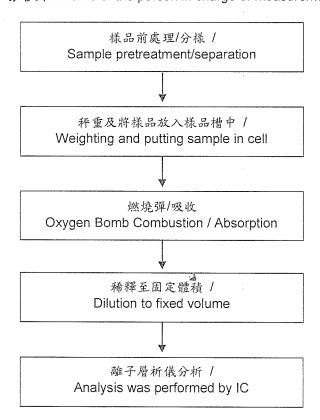
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員:陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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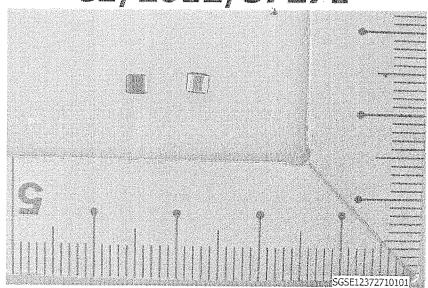
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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

> > CE/2012/37271



** 報告結尾(End of Report) **

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