SMD Type Power Inductor

SSL6D28SF-SERIES

	ECN HISTORY LIST									
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN					
1.0	14/06/03	新 發 行	楊祥忠	詹偉特	徐允珮					
備										
註										

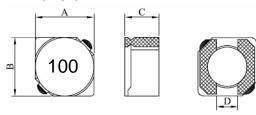
SMD Type Power Inductor

SSL6D28SF-SERIES

1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.

2. Dimension







Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL6D28SF	7.1 max.	7.1 max.	3.0 max.	2.0 ref.

Units: mm

3. Part Numbering

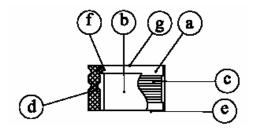


- A: Series (the tin clip)
- B: Dimension
- C: Lead free type
- D: Inductance 100=10.0uH , 3R0=3.0uH, 101=100uH
- E: Inductance Tolerance Y=±30%

4. Specification

Customer Part Number	TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
	SSL 6D28SF-3R0Y	3.0	± 30%	0.1V/10K	0.024	3.00
	SSL 6D28SF-3R9Y	3.9	± 30%	0.1V/10K	0.027	2.60
	SSL 6D28SF-5R0Y	5.0	± 30%	0.1V/10K	0.031	2.40
	SSL 6D28SF-6R0Y	6.0	± 30%	0.1V/10K	0.035	2.25
	SSL 6D28SF-7R3Y	7.3	± 30%	0.1V/10K	0.054	2.10
	SSL 6D28SF-8R6Y	8.6	± 30%	0.1V/10K	0.058	1.85
	SSL 6D28SF-100M	10	±20%	0.1V/10K	0.065	1.70
	SSL 6D28SF-120M	12	±20%	0.1V/10K	0.070	1.55
	SSL 6D28SF-150M	15	±20%	0.1V/10K	0.084	1.40
	SSL 6D28SF-180M	18	±20%	0.1V/10K	0.095	1.32
	SSL 6D28SF-220M	22	±20%	0.1V/10K	0.128	1.20
	SSL 6D28SF-270M	27	±20%	0.1V/10K	0.142	1.05
	SSL 6D28SF-330M	33	±20%	0.1V/10K	0.165	0.97
	SSL 6D28SF-390M	39	±20%	0.1V/10K	0.210	0.86
	SSL 6D28SF-470M	47	±20%	0.1V/10K	0.238	0.80
	SSL 6D28SF-560M	56	±20%	0.1V/10K	0.277	0.73
	SSL 6D28SF-680M	68	±20%	0.1V/10K	0.304	0.65
	SSL 6D28SF-820M	82	±20%	0.1V/10K	0.390	0.60
	SSL 6D28SF-101M	100	±20%	0.1V/10K	0.535	0.54

5. Material List



No.	Item	Materials
a.	Core	Ferrite Core (DR Type)
b.	Core	Ferrite Core (RI Type)
C.	Wire	Copper Wire
d.	Terminal	The Tin Plate
e.	Adhesive	Ероху
f.	Adhesive	Ероху
g.	Ink	White

6. Schematic Diagram

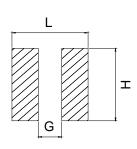


7. Reliability and Test Condition

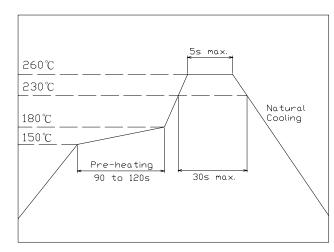
Item	Perform	nance		Test Condition
Operating Temperature	-40~+85℃			
Storage temperature	-40~+85°C (For products in unopened tape pa	ckage, less than 40°ℂ)		
Rated Current	Base on temp. rise & △L/LOA≦35%			
Temperature Rise Test	40°C typ. (∆t)			
Solder heat Resistance	Appearance: No significant abnormality. Inductance change: Within \pm 20%.		al cooling	Preheat:150°C,60sec. Solder: Sn-Ag3.0-Cu0.5 Solder tamperature:260±5°C Flux: rosin Dip time:10±0.5sec.
Solderability	More than 90% of the terminal electrode should be covered with solder.	Preheating Dipping Natural 245°C		Preheat:125±25°C,60sec. Solder: Sn-Ag3.0-Cu0.5 Solder tamperature:245±5°C Flux: rosin Dip time:4±1sec.
Thermal shock	Appearance: no damage. Inductance: within±10%of initial value.	Phase Temperature(°C 1 -55±2°C 2 Room Temp. 3 +85±2°C 4 Room Temp. Measured:100 times) Time(min) 30±3 5 30±3 5	For SSL Condition for 1 cycle Step1:-55±2°C 30±3 min. Step2:Room temperature 5 min. Step3:+85±2°C 30±3 min. Step4: Room temperature 5 min. Number of cycles:100 (MIL-STD-202G METHOD 107)

Item	Performance	Test Condition
Humidity Resistance Test	Appearance: no damage. Inductance: within±10%of initial value.	Temperature:40±2°C. Applied current:rated current. Duration:500±8 hrs. Humidity:90–95% (MIL-STD-202G METHOD 103)
High Temperature Resistance Test	Appearance: no damage. Inductance: within±10%of initial value.	Temperature:85±2°C. Applied current:rated current. Duration:500±8 hrs. (MIL-STD-202G METHOD 108
Random Vibration Test	Inductance: within±30%	Frequency: 10-55-10Hz for 1 min. Amplitude: 1.52mm Directions and times: X, Y, Z directions for 2 hours. A period of 2 hours in each of 3 mutually perpendicular directions (Total 6 hours).

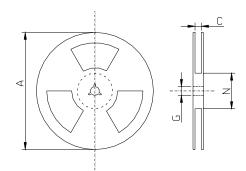
8. Recommended PC Board Pattern



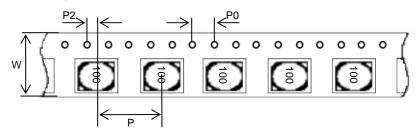
L(mm)	G(mm)	H(mm)
7.3	2.0	7.3



9. Packaging Information



Style	A(mm)	C(mm)	G(mm)	N(mm)
13"X16mm	330	18 ⁺⁰	13.5±0.5	50 ⁻⁰



Style	W(mm)	P(mm)	P2(mm)	D(mm)	Po(mm)	Packaging Qty(pcs)
16mm	16±0.3	12±0.1	2±0.1	1.5±0.25	4±0.1	1,000

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
- 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.
 - ${\it 3. Bulk\ handling\ should\ ensure\ that\ abrasion\ and\ mechanical\ shock\ are\ minimized.}\\$





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Test Report

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.)

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(桃園縣中應市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

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 POWER INDUCTOR

樣品型號(Style/Item No.)

: SSL, SPL, SSLM, SDSW, SDSL, SDSG SERIES

收件日期(Sample Receiving Date)

: 2014/02/17

測試期間(Testing Period)

: 2014/02/17 TO 2014/02/24

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



Chemical Laboratory - Taipei

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測試結果(Test Results)

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

測試項目 (Tast Item s)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鍋 / Cadmirm (Cd)	mg/kg	參考JEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測./ With	2	n.d.
鉛 / Leat (.5)	mg/kg	reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
表 / Mer· · (Hg)	mg/kg	参考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.
六價各 / Kezavaleat 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.
六溴環十二二氧所有主要被辨别出的 異構物 / Hembromocyclododecane (HBCDD) antall major diasteresissmers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6,	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質 譜儀检測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
134207-59000				

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

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

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(廣東省東莞甲黃江鎮黃牛埔福祥街2號 / NO. 2. FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG) (江蘇省是由亨蓬朗毘嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中華卓中源工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

测试项目 ("est Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鄭某二里/19年基基丁酯 / BBP (Benzyl hatel phthalate) (CAS No.: 85-68-1)	%	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.	0.003	n.d.
鄰苯二甲酸二 (2-乙 集己基)酯 / DEHP (Direntrothylhexyl) 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 "
鄰苯二甲烷二基癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761-40-1: 68515-49-1)	%	參考IN 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 - いら壬離 / DINP (Di- isononyl 声にはtate) (CAS No.: 28553-12-4: ト515-18-0)	%	多考TN 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(%	多考IN E372, 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、二丁腈 / DBP (Dibuty) phthalate/ TLS No.: 84-74-2)		多考.N ::372, 以氣相層析/質譜儀檢測之. / With reference to BN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲:二(下廣 / DIDP (Di- isobutyl ar afate) (CAS No.: 84- 69-5)	%	多考iN 15072, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was jerformed by GC/MS.	0.003	n.d.

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測試業告

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Test Report

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(桃園縣中港市中源工雲區長春六路15號 / NO. 15、CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

均数项目 (Test Hems)	單位 (Unit)	测試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯二 / Sum of PBBs	mg/kg		-	n.d.
一溴聯苯 / 、bromobiphenyl	mg/kg		5	n.d.
二溴聯苯 remobilificayl	mg/kg	kg kg kg	5	n.d.
三溴瑙菲 / Aribromobiphenyl	mg/kg		5	n.d.
四溴聯系 · Et abrom diphenyl	mg/kg		5	n.d.
五溴霉草 - r . abrow bipbenyl	mg∕kg		5	n.d.
六溴聯基 / Hexal casabi phenyl	72-11/		5	n.d.
七溴聯苯 / i.e. subrosubiphenyl	mg/kg		5	n.d.
八漁瑪尔 sabtono! [phenyl	mg/kg		5	n.d.
九溴聯苯 — Securomet i piceny i	mg/kg		5	n.d.
十溴醇苯 : Patrometh (teny)	mg/kg	[多音 EC 62321: 2008方法, 以氣相層析/質	5	n.d.
多溴粉系统点 in / Sus of PBDffs	mg/kg	譜儀 淦湖. / With reference to IEC	-	n.d.
一溴黯翠。' / Ambro. odiphenyl ether	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.
二溴颗苯甲 / Caramedipackyl ether	mg/kg		5	n.d.
三溴瑙乌 - / lei arom diplomyl ether	m _e g/Tage	 	5	n.d.
四溴解系。 — had robe modephea yl ethe r	ing/kv	To the state of th	5	n.d.
无绝吗之人 — Sainbi maddiben yl ethe r	mg/kg		5	n.d.
六溴基苯二 / Secudor-Woodiphonyl ether	mg/kp		5	n.d.
七溴聚苯乙。 Te dallrowed phon yl ethe r	ng/ke		5	n.d.
へ換いた。 / Stable and placayl cther	ieg/kg		5	n.d.
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Test Poponi

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(桃園縣中華日中級工業區長春六路15號 / NO. 15. CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

观似实面 Test Items)	(Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
歯索 クートミュー				1.0 6 2
鹵素(拿 Palogen-Flooring (F) (CAS No.: 1072-94-8)	ag/kg	亨考IS EN 14582:2007, 以離子層析儀分 法, / With reference to BS EN - 1582:2007. Analysis was performed by	50	n.d.
鹵素(含, loger=Chlorine (C1) (CAS folio 11 117-15-1)			50	n.d.
鹵素() - Talogen-Bromine (Br) (CAS No.: 15:077-32:2)			50	n.d.
鹵素(Electrologen-foline (1) (CAS No.: i 59-44-8)	: 3/kg		50	n . d .

循註(No :

- 1. mg , 1 : pm : 0.1wt% = 1000ppm
- 2. n.d. . · Instected (未檢出)
- 3. PLL = Northood Partection Limit (方法范邦企图值)
- 4. "-" = 1 + Regulated (無規格値)

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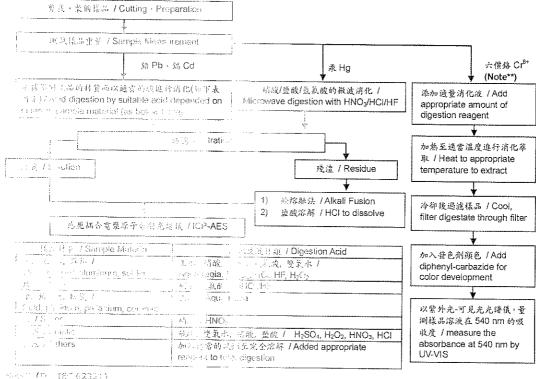
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- 三甲三丁辛间等與乏餘件,樣品也完全溶解。(云葉等)測制力。除片》 / These samples were
- is a sectional to pre-conditioning method according to believe that. (Cr⁶⁺ test method excluded) $\mathbb{R}(G):\mathbb{R}_+\cap\mathbb{Q}_+$ / Name of the person who made measurement. Climbgreat Yang
- Park 1 4 代:高水銀 / Harne of the person another of more intervent: Troy Chang



6-6-0 **(Fr. 120 6232))**

为 日本 企业 任日 参入政府 是 化光 下 生息 2 90~95~ 和床 / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.

设备工具品目标系统长、每点工法资源点。/ For includic material, add pure water and heat to boiling.

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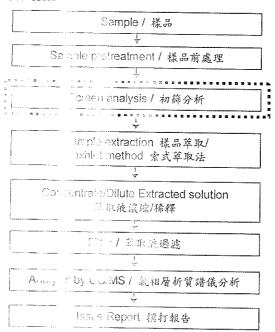
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离麦分析流程置 / / 国 lical low chart of halogen content

测試人員:陳恩珠 / Name of∃h∈ berson who made measurement: Rita Chen

『 三 測試負責人:張啓興 / Name of La person in charge of measurement: Troy Chang

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六海原十二烷三二烷甲酚 EBECDE Enalytical flow chart

- 测试人员:翁鹏彬 / No. of the plasen who made measurement: Roman Wong
- 黑 测試負責人:張啟與 / Fin the lifthe person in charge of measurement: Troy Chang

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(廣東省東東京主導) 等 中埔福祥術2號 / NO. 2、AIXI、AI STEPET, HUADENTUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG) (江蘇省昆山南省闽尾嘉高科技工業區郭澤路 / GTAI ZE DEAD, ELUTIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

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可塑劑分析效理 At Letical flow clart of phthalate content

测试人员:翁賜彬 / Name of the Hospin who made measurement: Roman Wong
- 测试負責人:張啓興 / Name of the person in the get of measurement: Troy Chang

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號碼(No.): CE/2 4/1 1/2 日期(Dat): 2014/02/24 頁數(Page): 11 of 11

西北臺度利益期份有限公司 / TAI-TECH ADVANCED FLEEDERNICS (O., LIT).

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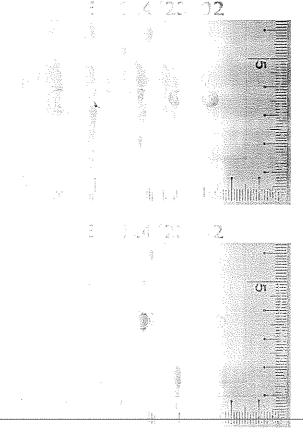
桃園縣特基市幼鄉工業區幼四路1號 / NO. 1, YO FILE FIDE YOUTH 130 STRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TARRES B. O. C.

(廣東省東莞宣養江鎮黃牛精福祥街2號 / NO. 2. UXI. STEET, HUAT INTUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG) (江蘇霜昆山市美國昆嘉高科技工業區郭澤路 / CU -ZE AD. KUNJIA H. 宣ECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU,

(桃園縣中国主立湖工業區長春六路15號 / NO. 15. CHEROTHEN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

* 照片中州南麓 15.7 一月是示高實施 资测之樣品/部位。*

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