

# O-LEADING

O-Leading 提供 PCB 製造、PCB 組裝、PCB 測試、PCBA 組裝、EMS 服務。我們提供各種類型的 PCB，包括 HDI PCB、FR4 PCB、Rogers PCB、Aluminum PCB、Copper PCB、Ceramic PCB、Metal PCB、Flex PCB、Rigid-Flex PCB、Impreg. PCB、Bismaleimide PCB、Epoxy Resin PCB、FR-4 PCB、FR-5 PCB、FR-6 PCB、FR-7 PCB、FR-8 PCB、FR-9 PCB、FR-10 PCB、FR-11 PCB、FR-12 PCB、FR-13 PCB、FR-14 PCB、FR-15 PCB、FR-16 PCB、FR-17 PCB、FR-18 PCB、FR-19 PCB、FR-20 PCB、FR-21 PCB、FR-22 PCB、FR-23 PCB、FR-24 PCB、FR-25 PCB、FR-26 PCB、FR-27 PCB、FR-28 PCB、FR-29 PCB、FR-30 PCB、FR-31 PCB、FR-32 PCB、FR-33 PCB、FR-34 PCB、FR-35 PCB、FR-36 PCB、FR-37 PCB、FR-38 PCB、FR-39 PCB、FR-40 PCB、FR-41 PCB、FR-42 PCB、FR-43 PCB、FR-44 PCB、FR-45 PCB、FR-46 PCB、FR-47 PCB、FR-48 PCB、FR-49 PCB、FR-50 PCB、FR-51 PCB、FR-52 PCB、FR-53 PCB、FR-54 PCB、FR-55 PCB、FR-56 PCB、FR-57 PCB、FR-58 PCB、FR-59 PCB、FR-60 PCB、FR-61 PCB、FR-62 PCB、FR-63 PCB、FR-64 PCB、FR-65 PCB、FR-66 PCB、FR-67 PCB、FR-68 PCB、FR-69 PCB、FR-70 PCB、FR-71 PCB、FR-72 PCB、FR-73 PCB、FR-74 PCB、FR-75 PCB、FR-76 PCB、FR-77 PCB、FR-78 PCB、FR-79 PCB、FR-80 PCB、FR-81 PCB、FR-82 PCB、FR-83 PCB、FR-84 PCB、FR-85 PCB、FR-86 PCB、FR-87 PCB、FR-88 PCB、FR-89 PCB、FR-90 PCB、FR-91 PCB、FR-92 PCB、FR-93 PCB、FR-94 PCB、FR-95 PCB、FR-96 PCB、FR-97 PCB、FR-98 PCB、FR-99 PCB、FR-100 PCB。我們提供各種類型的 PCB，包括 HDI PCB、FR4 PCB、Rogers PCB、Aluminum PCB、Copper PCB、Ceramic PCB、Metal PCB、Flex PCB、Rigid-Flex PCB、Impreg. PCB、Bismaleimide PCB、Epoxy Resin PCB、FR-4 PCB、FR-5 PCB、FR-6 PCB、FR-7 PCB、FR-8 PCB、FR-9 PCB、FR-10 PCB、FR-11 PCB、FR-12 PCB、FR-13 PCB、FR-14 PCB、FR-15 PCB、FR-16 PCB、FR-17 PCB、FR-18 PCB、FR-19 PCB、FR-20 PCB、FR-21 PCB、FR-22 PCB、FR-23 PCB、FR-24 PCB、FR-25 PCB、FR-26 PCB、FR-27 PCB、FR-28 PCB、FR-29 PCB、FR-30 PCB、FR-31 PCB、FR-32 PCB、FR-33 PCB、FR-34 PCB、FR-35 PCB、FR-36 PCB、FR-37 PCB、FR-38 PCB、FR-39 PCB、FR-40 PCB、FR-41 PCB、FR-42 PCB、FR-43 PCB、FR-44 PCB、FR-45 PCB、FR-46 PCB、FR-47 PCB、FR-48 PCB、FR-49 PCB、FR-50 PCB、FR-51 PCB、FR-52 PCB、FR-53 PCB、FR-54 PCB、FR-55 PCB、FR-56 PCB、FR-57 PCB、FR-58 PCB、FR-59 PCB、FR-60 PCB、FR-61 PCB、FR-62 PCB、FR-63 PCB、FR-64 PCB、FR-65 PCB、FR-66 PCB、FR-67 PCB、FR-68 PCB、FR-69 PCB、FR-70 PCB、FR-71 PCB、FR-72 PCB、FR-73 PCB、FR-74 PCB、FR-75 PCB、FR-76 PCB、FR-77 PCB、FR-78 PCB、FR-79 PCB、FR-80 PCB、FR-81 PCB、FR-82 PCB、FR-83 PCB、FR-84 PCB、FR-85 PCB、FR-86 PCB、FR-87 PCB、FR-88 PCB、FR-89 PCB、FR-90 PCB、FR-91 PCB、FR-92 PCB、FR-93 PCB、FR-94 PCB、FR-95 PCB、FR-96 PCB、FR-97 PCB、FR-98 PCB、FR-99 PCB、FR-100 PCB。

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## 服務

服務

材料	FR-4, 銅箔厚度	厚度	0.5oz-5oz
厚度	0.2mm	厚度	0.2mm
表面處理	OSP, HASL	厚度	0.2mm
材料	led	厚度	
認證	ISO9001, UL, RoHS, SGS	Q / CTN	10PCS-100PCS
重量	0.01kg -5kg	MOQ	10
厚度		厚度	0.1-5mm
厚度	PCB, PCBA	厚度	0.1-10
厚度		厚度	0.01m3-10m3

服務

### 16 種 OEM PCB 服務

項目	2014		2015-2016		2017-2018	
	厚度	厚度	厚度	厚度	厚度	厚度
厚度	32	42	38	44	42	48
厚度/厚度 μm	50/50	40/45	40/45	40/40	35/40	35/35
厚度 mm	0.15	0.10	0.15	0.10	0.15	0.10
PTH	14-1	16-1	16-1	18-1	18-1	20-1
N + C + N	4 + C + 4	5 + C + 5	5 + C + 5	6 + C + 6	5 + C + 5	6 + C + 6
厚度	5 + 2 + 5	6 + 2 + 6	5 + 2 + 5	6 + 2 + 6	5 + 2 + 5	6 + 2 + 6
厚度		-		-		-
厚度 μm	50	40	40	30	40	30
厚度 μm	75	65	65	50	50	40
厚度		-		-		-
材料	FR4, Megtron, Nelco, Rogers, Heavy Copper					

PCB						
	HASL ENIG OSP					



Factory PCB



Automatic vacuum press machine



Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine



E-test Machine

Factory SMT





CICC INSPECTION CERTIFICATION



**嘉泰认证**

**QUALITY MANAGEMENT SYSTEM CERTIFICATE**  
Certificate No: 18118Q10347R05

**We hereby certify that**  
**O-LEADING SUPPLY CHAIN(HK) CO.,LIMITED**  
Credit No: 61691591-000-07-18-7  
Registration Add: FLAT/RM 1205 12/F TAI SANG BANK BUILDING 130-132 DES VOEUS ROAD CENTRAL HK  
Business Add: 1213, Floor 13, Fortune Building, Danshui Town, Huiyang District, Huizhou, Guangdong, China

**Has implemented and maintains a Quality Management System**  
Which fulfills the requirements of the following standards  
GB/T19001-2016 idt ISO9001:2015

**Scope of certification**  
Sales of printed circuit boards

Initial issuance period: February 27, 2018  
Renewal date: April 22, 2019  
This certificate is valid during: April 22, 2019 — February 26, 2021  
This certificate is invalid without CICC qualified label in the following period

First supervision and audit	Second supervision and audit	Qualified mark
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The certificate registration fee ranges from 1,000 to 5,000 RMB. The fee will be returned to the customer after the certificate is issued. The certificate is valid for 1 year. The certificate is valid for 1 year. The certificate is valid for 1 year. The certificate is valid for 1 year.






CICC INSPECTION CERTIFICATION



**嘉泰认证**

**质量管理体系认证证书**  
证书号: 18118Q10347R05

**兹证明**  
**诚领供应链(香港)有限公司**  
统一社会信用代码: 61691591-000-07-18-7  
注册地址: 香港中環德輔道中130-132號大生銀行大廈1205室  
经营地址: 广东惠州惠阳淡水南亨西路财富大厦13楼1313


**建立的质量管理体系符合**  
GB/T19001-2016 idt ISO9001:2015 质量标准适用条款的要求

**认证范围**  
印刷线路板的销售

初次获证日期: 2018年02月27日  
换证日期: 2019年04月22日  
证书有效期: 自2019年04月22日至2021年02月26日  
在下列期限内, 未经CICC黏贴合格标贴, 本证书无效

第一次监审	第二次监审	黏贴处
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本证书认证范围不包括未取得有效的国家规定的行政许可、资质许可的产品/服务范围。本证书通过CICC定期监督审核保持, 与年度《保持认证通知书》共同方为有效。本证书信息可在国家认监委网站: www.cnca.gov.cn及CICC网站www.cicc.com.cn查询。





Test Report

No. SZXEC1900530401 Date: 30 Mar 2019 Page 1 of 6

O-LEADING SUPPLY CHAIN (HK) CO., LIMITED

1313.FLOOR 13, FORTUNE BUILDING, DANSHUI TOWN, HUIYANG DISTRICT, HUIZHOU, GUANGDONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : OSP

SGS Job No. : RP19-005089 - SZ
Date of Sample Received : 22 Mar 2019
Testing Period : 22 Mar 2019 - 30 Mar 2019
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina
Tina Fan
Approved Signatory



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Test Report

No. SZXEC1900530401 Date: 30 Mar 2019 Page 2 of 6

Test Results :

Test Part Description :

Table with 3 columns: Specimen No., SGS Sample ID, Description. Row 1: SN1, SZX19-005304.001, Green"PCB"

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Table with 5 columns: Test Item(s), Limit, Unit, MDL, QZT. Lists various substances like Cadmium, Lead, Mercury, Hexavalent Chromium, Sum of PBBs, etc. with their respective limits and units.



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Member of the SGS Group (SGS SA)



# ZPMV2.E490354 - WIRING, PRINTED - COMPONENT

## Wiring, Printed - Component

See General Information for Wiring, Printed - Component

**O-LEADING SUPPLY CHAIN (HK) CO LTD**  
 ROOM 1205, 12/F  
 TAI SANG BANK BLDG  
 130-132 DES VOEUS ROAD  
 CENTRAL, HONG KONG

E490354

Type	Cond Width		Cond Thk	SS/ DS/ DSO	Max Area Diam	Max Solder Limits		Max Oper Temp		Meets UL796	C
	Min	Edge				C	sec	C	Class		
	mm(in)	mm(in)	mic(mil)		mm(in)	C	sec	C	Class	DSR	I
<b>Multilayer (mass laminate) printed wiring boards.</b>											
O-LEADING-401	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	12.7 (0.5)	260	10	130	V-0	-	-
O-LEADING-407	0.08 (0.003)	0.2 (0.008)	17 (0.67)	DS	9.7 (0.4)	260	10	130	V-0	All	-
<b>Multilayer printed wiring boards.</b>											
O-LEADING-408	0.125 (0.005)	0.125 (0.005)	12 (0.47) Int:136	DS	50.8 (2.0)	280	20	130	V-0	All	*
<b>Single layer printed wiring boards.</b>											
O-LEADING-002	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	105	V-0	All	-
O-LEADING-003	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	130	V-0	▲	-
O-LEADING-033	0.15 (0.006)	0.3 (0.012)	34 (1.34)	SS	25.4 (1.0)	260	10	120	V-0	All	-
O-LEADING-205	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	69.6 (2.7)	260	10	130	V-0	All	-
O-LEADING-206	0.15 (0.006)	0.33 (0.013)	17 (0.67)	DS	69.6 (2.7)	260	10	130	V-0	All	-
O-LEADING-D01	0.14 (0.006)	0.15 (0.006)	33 (1.30)	DS	25.4 (1.0)	260	10	130	V-0	All	*
O-LEADING-S01	0.25 (0.010)	0.25 (0.010)	17 (0.67)	SS	25.4 (1.0)	260	4	130	V-0	All	*

WIRING, PRINTED - COMPONENT | UL Product iQ

O-LEADING-S02	0.2 (0.008)	0.2 (0.008)	17 (0.67)	SS	25.4 (1.0)	260	4	130	HB	▲	*
O-LEADING-S03	0.25 (0.010)	0.25 (0.010)	34 (1.34)	SS	25.4 (1.0)	260	4	130	V-0	All	*

\* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

并不是所有出现在本数据库中的公司名称和产品都满足了UL跟踪检验服务的要求。只有带有UL标志的产品，才应该被视为经过UL认证，并满足UL跟踪检验服务的要求。注意查看产品上的标志。

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# Shipping service



Quick Turn Lead Time		
Layer Count:	Lead Tim	Special Requirement
1L/2L	2-3days	24 Hours,48 Hours
4L	3-4days	48 Hours
6L	4-5days	72 Hours
8L	5-6days	NA
10L	6-7days	NA
12L	7-8days	NA
14L	8-9days	NA

Standard Lead Time		
Layer Count:	Sample Lead Time	Volume order lead time
2L	4 days	10 days
4L	5 days	11 days
6L	6 days	12 days
8L	8 days	14 days
10L	10 days	16 days
12L	12 days	18 days
14L	14 days	20 days
16-32L	18 days	24 days



**PCB**

1Layer-32Layer  
 1 / 3oz-12oz  
 3.0mil / 3.0mil  
 4.0mil / 4.0mil  
 10 $\mu$ m  
 0.2mm-5.0mm  
 635 \* 1500mm  
 4mil  
 Plated Hole Tolerance  $\pm$  3mil  
 Blind / Buried Vias All  
 Via Fill  
 FR-4 FR-4high Tg  
 HASL OSP ENIG HAL-LF

**SMT**



PCB FR-4 CEM-1 CEM-3  
PCB 510x460mm  
PCB 50x50mm  
PCB 0.5mm-4.5mm  
0.5-4mm  
0201  
0603  
15mm  
0.3mm  
BGA 0.4mm  
+/- 0.03mm